

PLC

Safety CPU Seri MELSEC iQ-R, Safety Remote I/O

Kursus pelatihan ini ditujukan bagi mereka yang memiliki pemahaman tentang dasar-dasar Safety dan menggunakan Safety CPU Seri MELSEC iQ-R/ Safety Remote I/O untuk pertama kali.

Klik tombol Berikutnya di kanan atas layar.

Kursus ini menjelaskan metode startup, fungsi logika cepat, metode pemrograman dasar, dan pemecahan masalah bagi mereka yang akan membangun sistem menggunakan safety CPU/safety remote I/O MELSEC seri iQ-R untuk pertama kalinya.

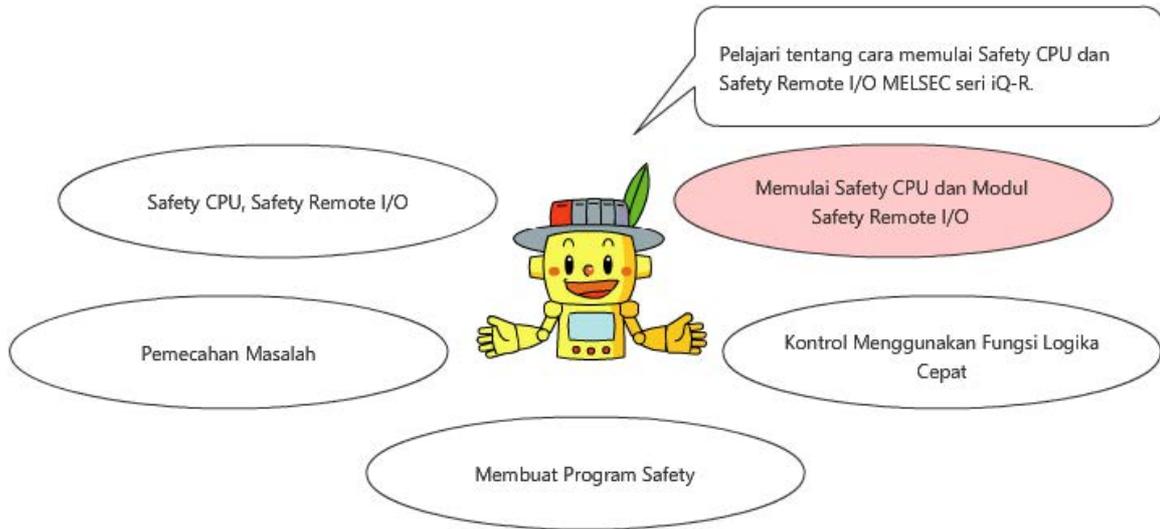


Orang yang hendak mempelajari kursus ini harus memiliki pengetahuan mendasar tentang tindakan keselamatan untuk menggunakan sistem mesin dan PLC MELSEC seri iQ-R.

Bagi pemula dianjurkan menyelesaikan kursus berikut terlebih dahulu.

- Kursus "Memulai Keselamatan Mesin"
- Kursus "Dasar-dasar MELSEC iQ-R Series"

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Pendahuluan Tujuan Kursus

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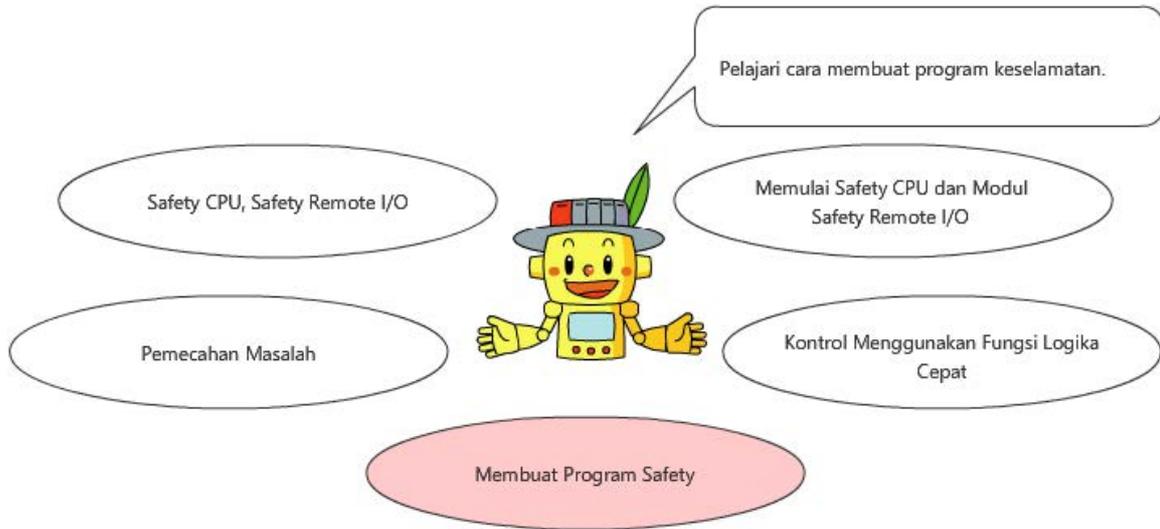


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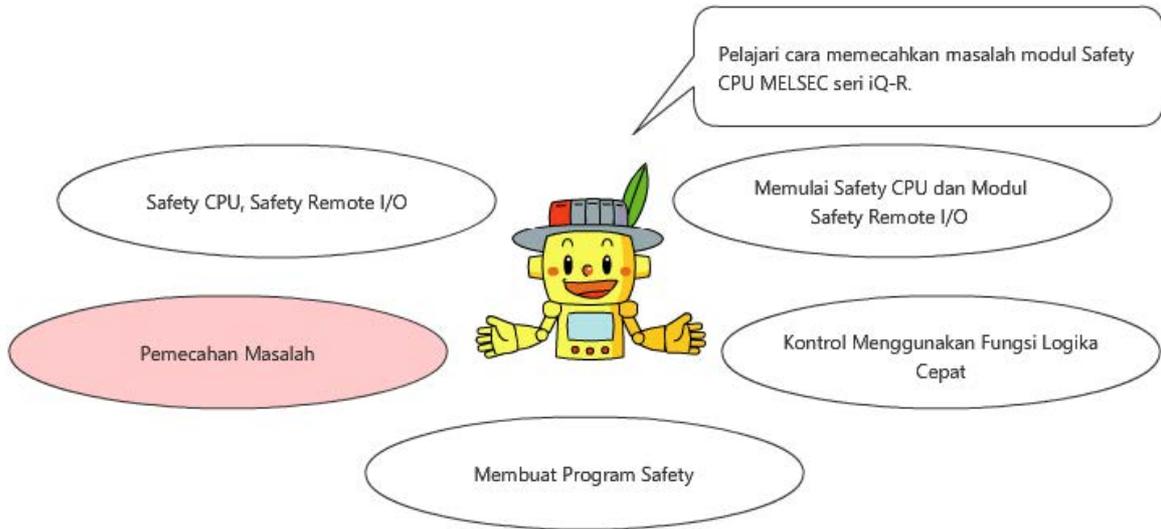


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Berikut adalah daftar isi kursus.
Sebaiknya Anda mulai dari Bab 1.

Bab 1 - Safety CPU, Safety Remote I/O

Pelajari karakteristik Safety CPU Seri MELSEC iQ-R dan Safety Remote I/O perhatian saat memasang kabel.

Bab 2 - Memulai Safety CPU dan Modul Safety Remote I/O

Pelajari tentang Safety CPU Seri MELSEC iQ-R dan metode memulai Safety Remote I/O.

Bab 3 - Kontrol Menggunakan Fungsi Logika Cepat

Pelajari tentang karakteristik dan metode kontrol fungsi logika cepat.

Bab 4 - Membuat Program Keselamatan

Pelajari cara membuat program safety.

Bab 5 - Pemecahan masalah

Pelajari cara memecahkan masalah modul Safety CPU Seri MELSEC iQ-R.

Tes Akhir

5 bagian secara keseluruhan (6 pertanyaan) Nilai kelulusan: 60% atau lebih tinggi

Pendahuluan Cara Menggunakan Alat e-Learning Ini

Buka halaman berikutnya		Membuka halaman berikutnya.
Kembali ke halaman sebelumnya		Kembali ke halaman sebelumnya.
Beralih ke halaman yang diinginkan		"Daftar Isi" akan ditampilkan, memungkinkan Anda untuk menavigasi ke halaman yang diinginkan.
Keluar dari kursus		Keluar dari kursus Jendela seperti layar "Daftar Isi" dan kursus akan ditutup.

■ **Petunjuk keselamatan**

Saat Anda belajar dengan produk sebenarnya, bacalah petunjuk keselamatan pada panduan yang sesuai dengan tuntas dan ikuti panduan tersebut dengan benar.

■ **Petunjuk keselamatan dalam kursus ini**

Layar yang ditampilkan pada versi perangkat lunak yang Anda gunakan mungkin berbeda dengan yang ada di dalam kursus ini.

Informasi berikut menunjukkan perangkat lunak yang digunakan dalam kursus ini beserta nomor versinya.

Untuk versi terbaru dari setiap perangkat lunak, kunjungi situs web Mitsubishi Electric FA.

MELSOFT GX Works3

Ver.1.065T

Bab ini menjelaskan safety CPU/safety remote I/O MELSEC seri iQ-R.

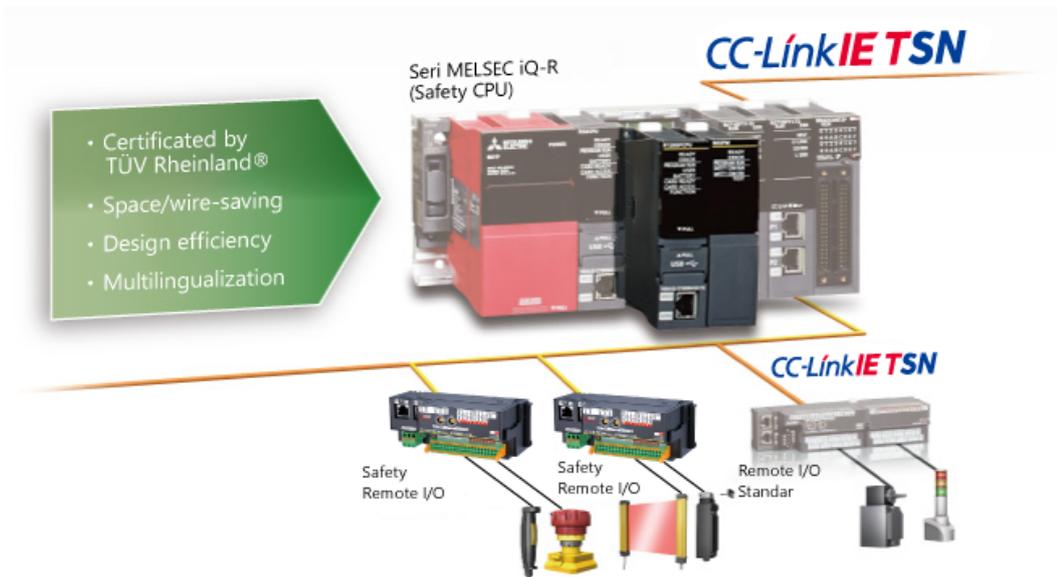
- 1.1 Safety CPU
- 1.2 Safety Remote I/O
- 1.3 Langkah Pencegahan saat Memasang Kabel Safety Remote I/O
- 1.4 Ringkasan Bab Ini

Safety CPU yang memenuhi standar keselamatan internasional dapat mengontrol sistem standar dan sistem keselamatan secara bersamaan. Sistem menggabungkan kontrol standar dan kontrol keselamatan dapat dibangun dengan menghubungkan sakelar keselamatan dan sensor safety light curtain melalui Jaringan CC-Link IE TSN ke sistem yang menggunakan safety CPU. Selain itu, GX Works3, paket perangkat lunak yang menawarkan operasi intuitif, dapat digunakan untuk pemrograman terpadu dari kontrol standar dan kontrol keselamatan.



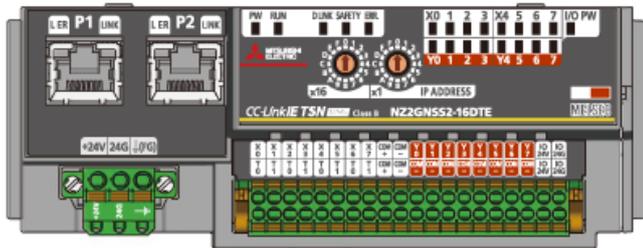
Safety remote I/O adalah modul safety remote I/O yang kompatibel dengan fungsi komunikasi Keselamatan Jaringan CC-Link IE TSN.

Kontrol safety dilakukan bersama-sama dengan Safety CPU Seri MELSEC iQ-R.



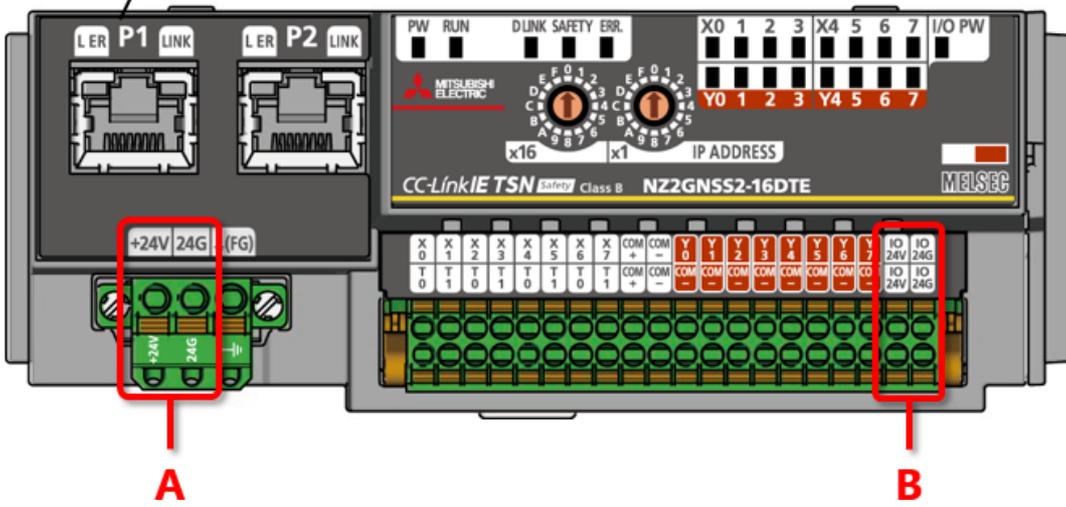
Ada tiga jenis modul safety remote I/O: modul input, modul output, dan modul gabungan I/O.

Empat titik input keselamatan dan output keselamatan dapat dihubungkan menggunakan pengkabelan ganda (redundant).



Saat menggunakan safety remote I/O, berikan daya ke A dan B dengan benar seperti yang ditunjukkan di bawah ini.

Modul gabungan I/O



Dalam bab ini, Anda telah mempelajari:

- Safety CPU
- Safety Remote I/O
- Langkah Pencegahan saat Memasang Kabel Modul Safety Remote I/O

Poin-poin penting

Safety CPU	<ul style="list-style-type: none">• Safety CPU yang memenuhi standar keselamatan internasional dapat mengontrol sistem standar dan sistem safety secara bersama-sama.
Safety Remote I/O	<ul style="list-style-type: none">• Safety remote I/O adalah modul safety remote I/O yang kompatibel dengan fungsi komunikasi keselamatan jaringan CC-Link IE TSN.
Langkah pencegahan saat memasang kabel modul Safety Remote I/O	<ul style="list-style-type: none">• Saat menggunakan safety remote I/O, berikan daya ke posisi yang ditentukan dengan benar.

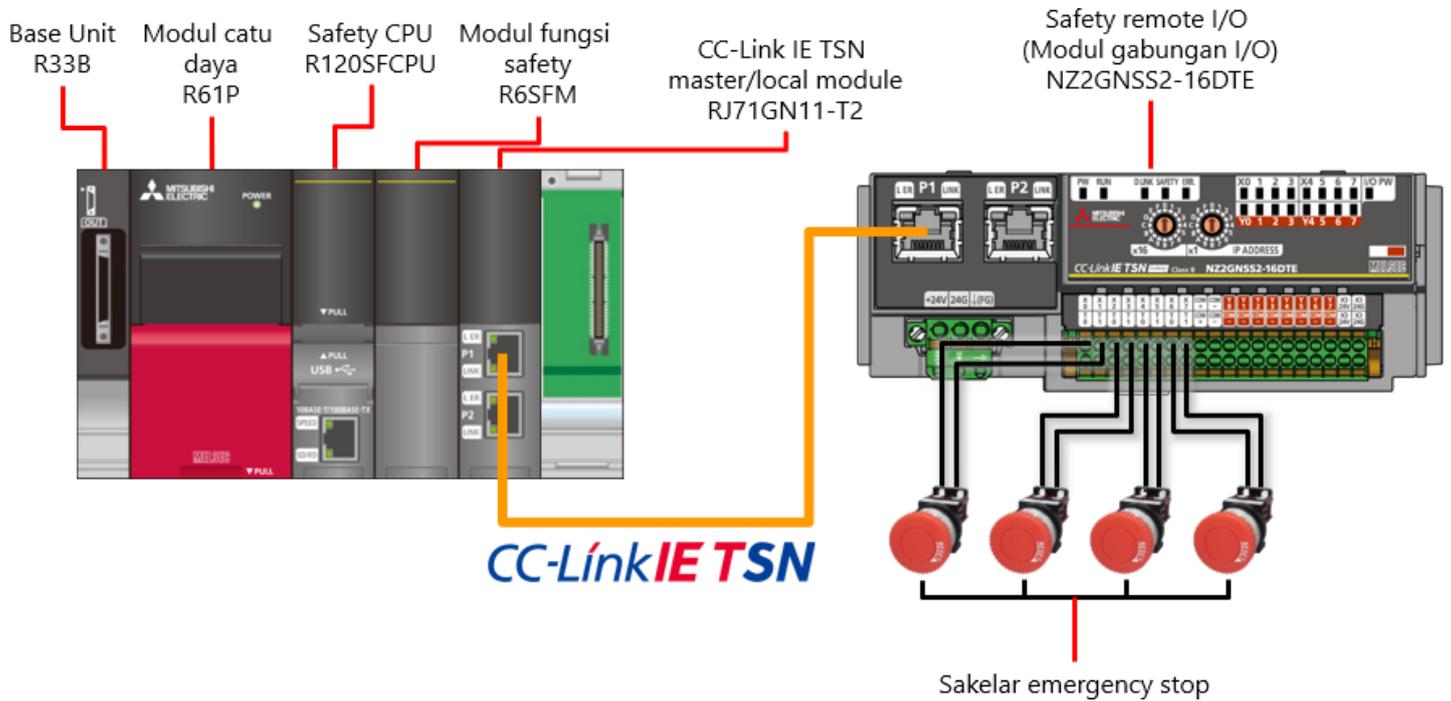
Dalam bab ini akan diperkenalkan Safety CPU Seri MELSEC iQ-R dan Safety Remote I/O.

- 2.1 Lingkungan yang Diharapkan untuk Kursus Ini
- 2.2 Mengatur Sakelar Pengaturan Alamat IP
- 2.3 Membuat Proyek
- 2.4 Definisi Konfigurasi Modul
- 2.5 Pengaturan Komunikasi Keselamatan
- 2.6 Mengaktifkan Pengaturan Keselamatan
- 2.7 Memeriksa LED Safety Remote I/O
- 2.8 Ringkasan Bab Ini

2.1

Lingkungan yang Diharapkan untuk Kursus Ini

Lingkungan berikut diharapkan untuk kursus ini.



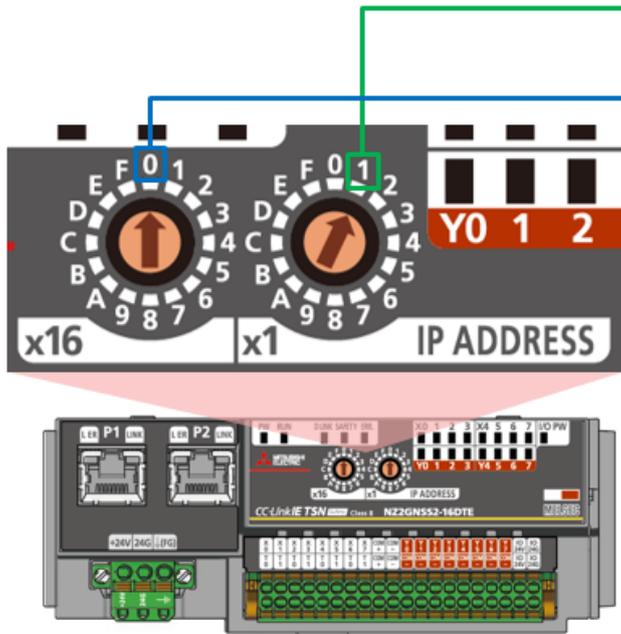
* Untuk sakelar darurat, gunakan pengkabelan ganda pada "X0, X1", "X2, X3", "X4, X5", dan "X6, X7".

Atur oktet keempat alamat IP dengan menggunakan sakelar pengaturan alamat IP di bagian depan safety remote I/O. Untuk mengatur oktet keempat (desimal), periksa daftar kombinasi dan gunakan sakelar pengaturan alamat IP x1 dan x16 (heksadesimal).

Oktet keempat

Berikut ini contoh pengaturan ke "192.168.31".

* Atur sakelar pengaturan alamat IP pada kondisi daya tidak aktif karena sakelar akan diaktifkan saat daya hidup.



Daftar kombinasi

		x1															
		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
x16	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
	4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
	5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
	6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
	7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
	8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
	9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
	A	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
	B	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
	C	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
	D	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
	E	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
	F	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

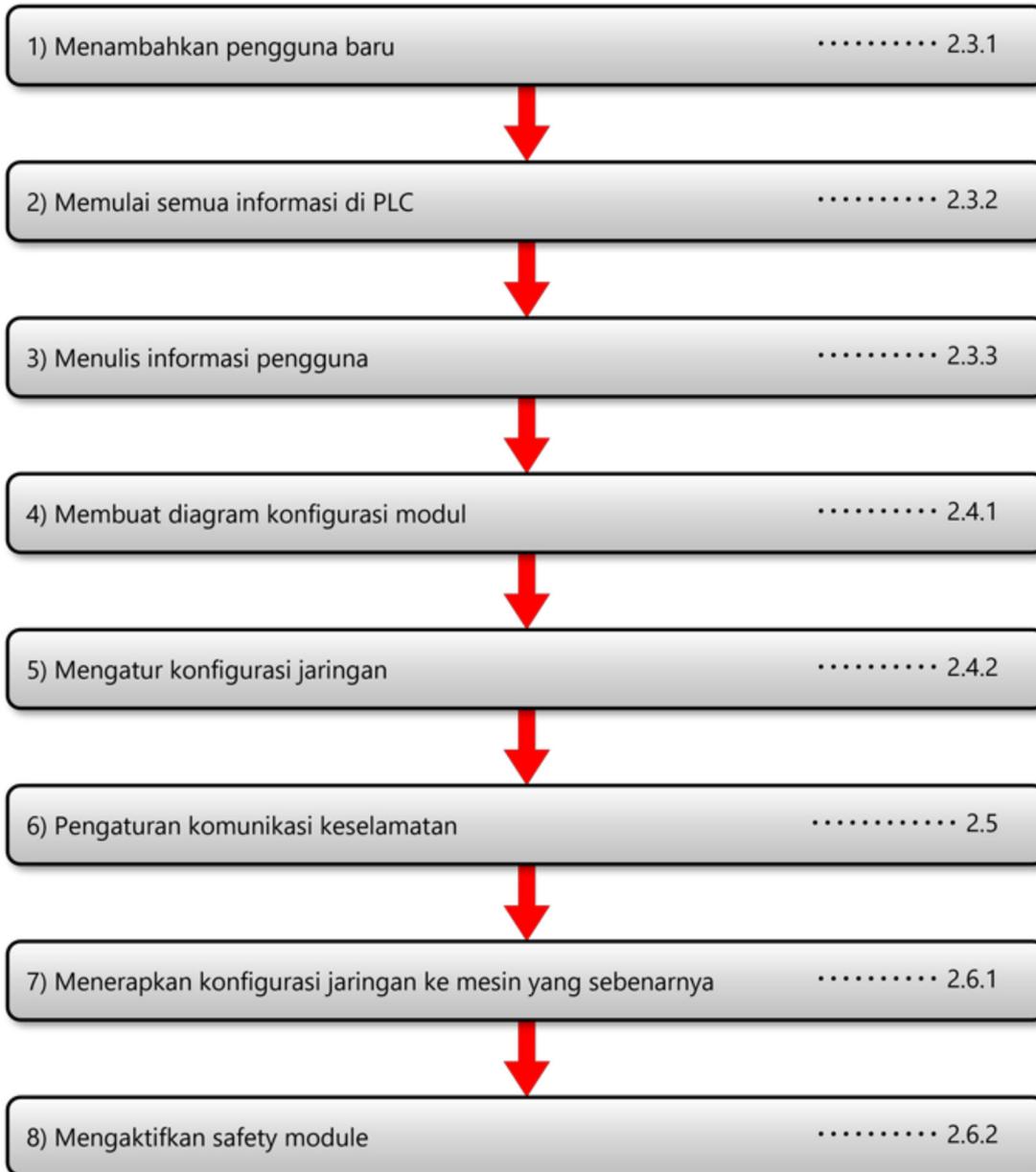
Gunakan MELSOFT GX Works3 untuk membuat proyek dan program sekuens.

Saat menggunakan safety CPU/safety remote I/O MELSEC seri iQ-R, diperlukan MELSOFT GX Works3 is versi 1.065T atau lebih baru.

Memeriksa versi MELSOFT GX Works3

Setelah memulai MELSOFT GX Works3, pilih [Help] - [Version Information] dari menu.

Berikut ini menunjukkan prosedur pengaturan. Untuk detail setiap prosedur, lihat halaman berikut.



2.3.1

Menambahkan pengguna baru

Jalankan MELSOFT GX Works3 dan buat proyek baru.

Pilih [Project] - [New] dari menu dan atur sebagai berikut, lalu klik OK.

The 'New' dialog box in MELSOFT GX Works3 is shown with the following settings:

- Series: RCPU
- Type: R120SF
- Mode: (empty)
- Program Language: Ladder

The 'OK' button is highlighted with a red box.

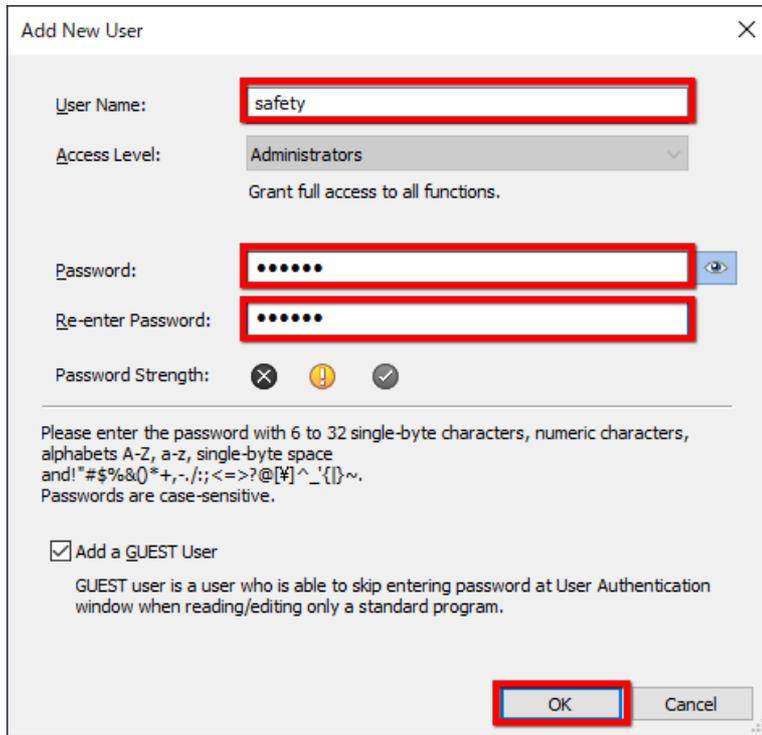
Item	Mengatur konten
Series	RCPU
Type	R120SF
Program Language	Ladder

2.3.1

Menambahkan pengguna baru

Tambahkan pengguna baru.

Masukkan nama pengguna, kata sandi, dan kata sandi konfirmasi, dan klik OK.



Add New User [X]

User Name:

Access Level: [v]
Grant full access to all functions.

Password: [eye]

Re-enter Password:

Password Strength: [X] [!] [✓]

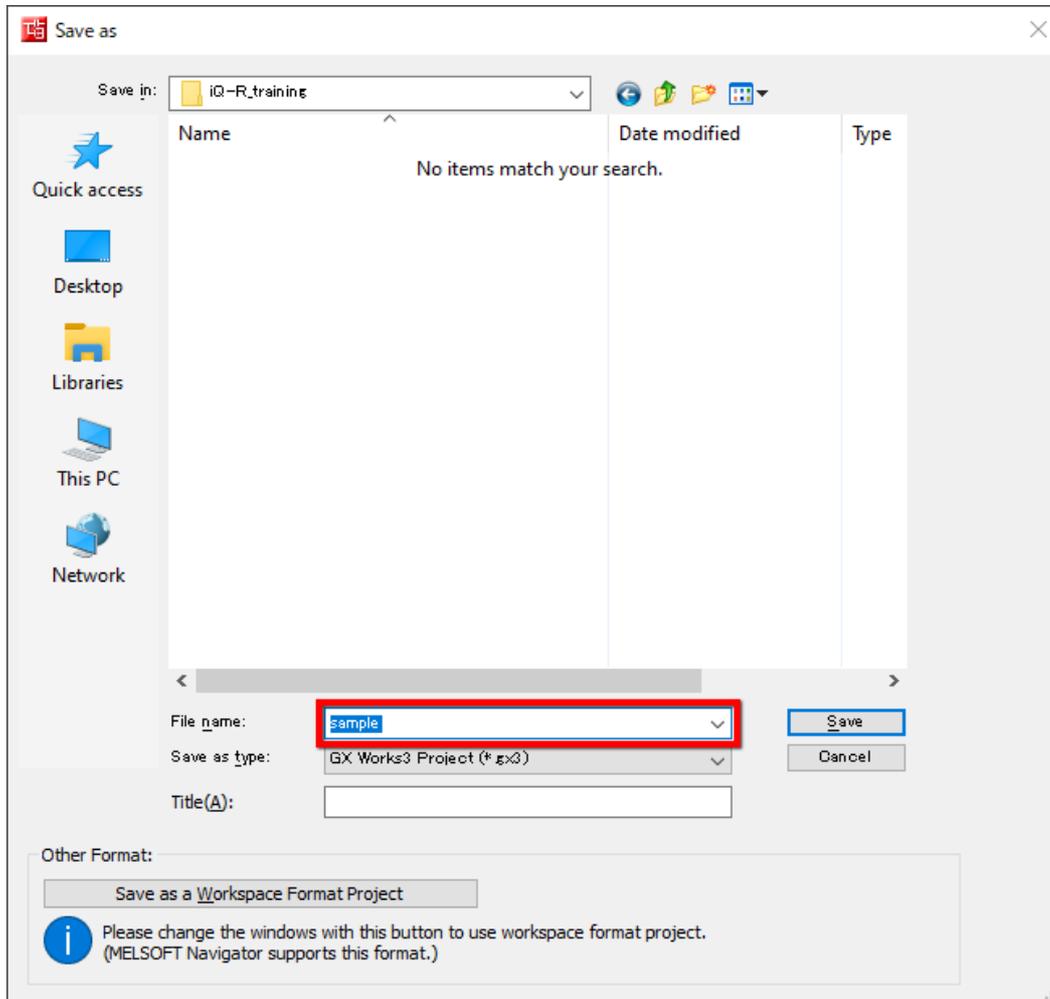
Please enter the password with 6 to 32 single-byte characters, numeric characters, alphabets A-Z, a-z, single-byte space and !"#%&()*+,-./:;<=>@[¥]^_`{|}~. Passwords are case-sensitive.

Add a GUEST User
GUEST user is a user who is able to skip entering password at User Authentication window when reading/editing only a standard program.

2.3.1

Menambahkan pengguna baru

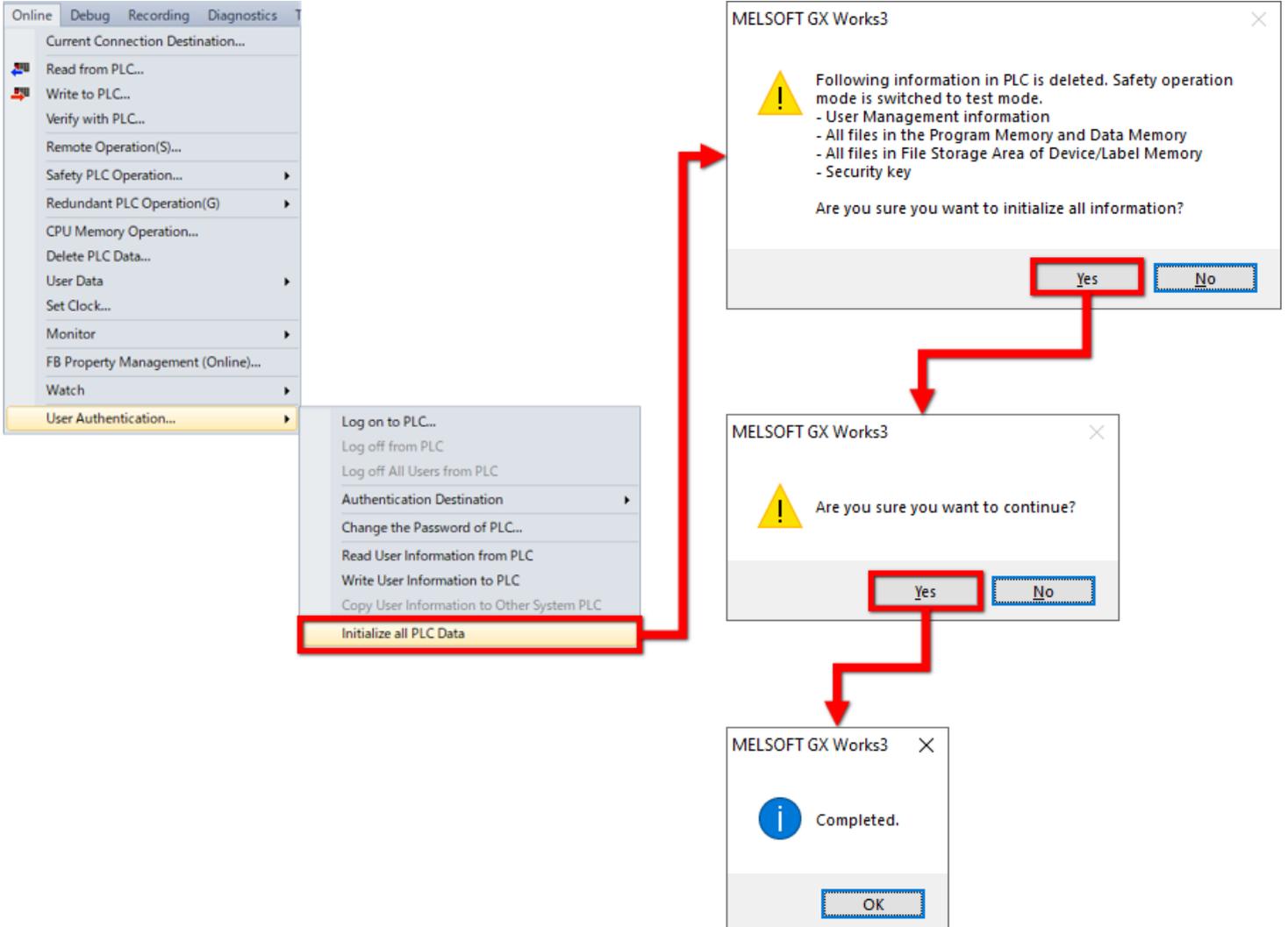
Ketika sebuah proyek dibuat, jendela simpan akan terbuka secara otomatis. Masukkan nama file, lalu klik [Save].



2.3.2

Memulai semua informasi di PLC

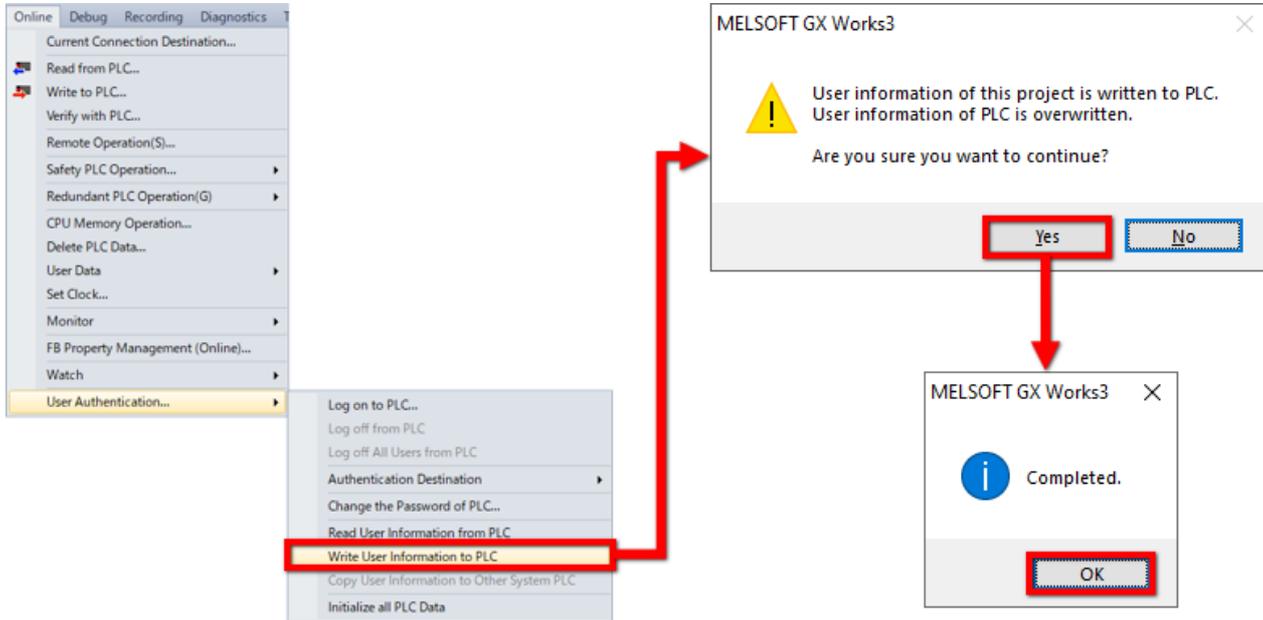
Saat memulai safety CPU untuk pertama kali setelah pembelian, disarankan untuk memulai semua informasi di PLC. Pilih [Online] - [User Authentication] - [Initialize all PLC Data], lalu klik [Yes].
Jendela konfirmasi muncul lagi. Klik [Yes].
Setelah selesai memulai semua informasi di PLC, klik [OK].



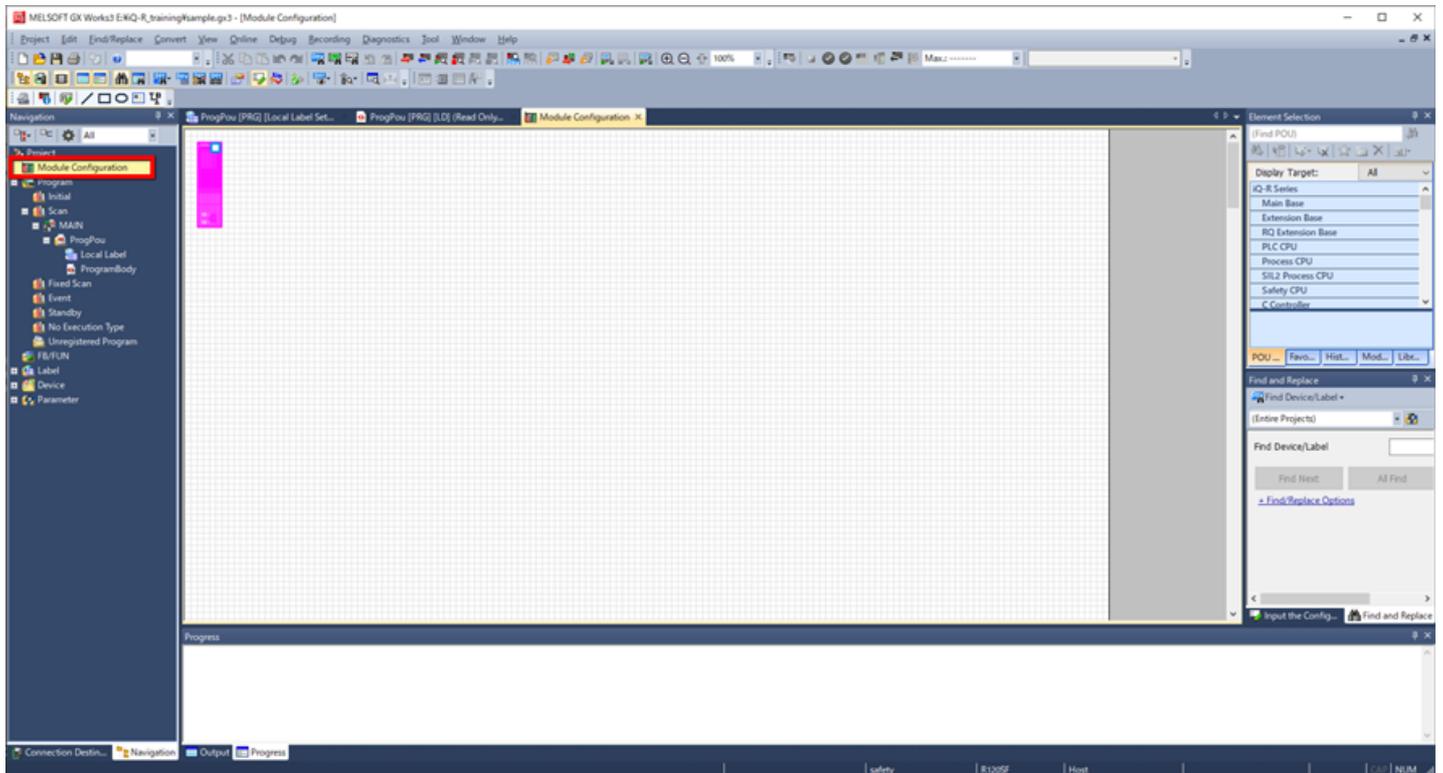
2.3.3

Menulis informasi pengguna

Tulis informasi pengguna sehingga proyek dapat ditulis ke mesin yang sebenarnya.
Pilih [Online] - [User Authentication] - [Write User Information to PLC], lalu klik [Yes].
Setelah pendaftaran informasi pengguna selesai, klik [OK].



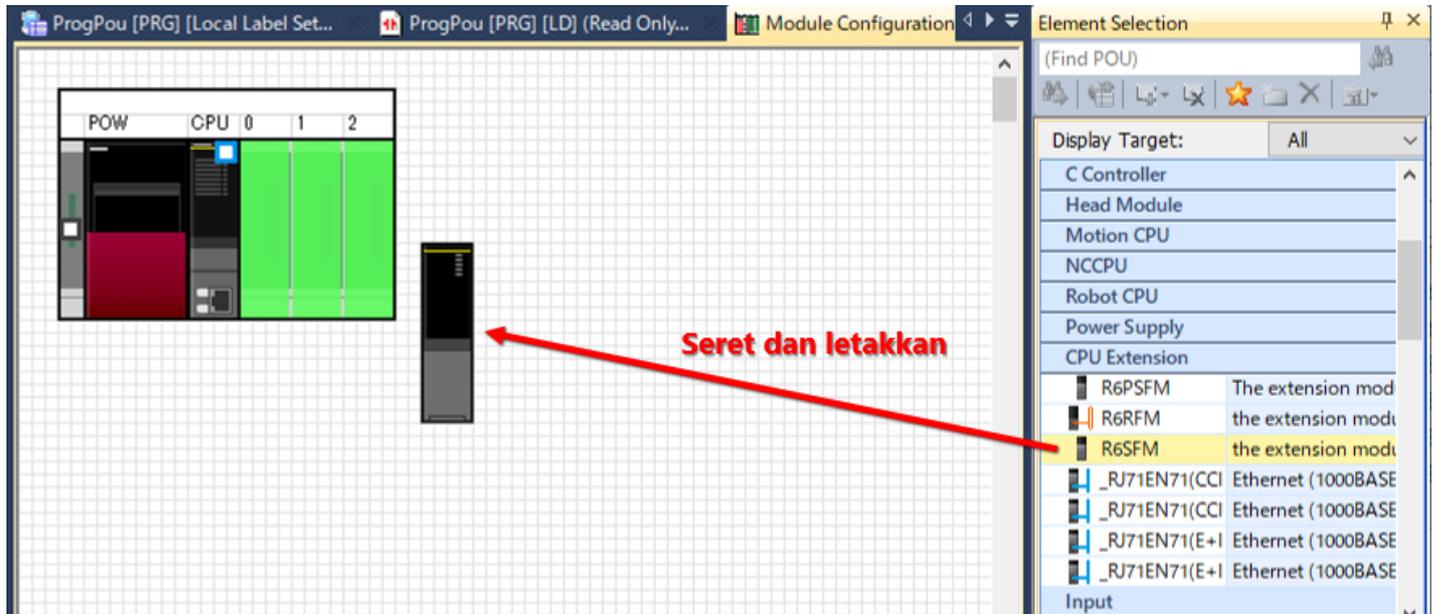
Buat diagram konfigurasi modul dan konfigurasi pengaturan konfigurasi jaringan.
Klik dua kali [Module Configuration] di daftar navigasi untuk membuka diagram konfigurasi modul.



2.4.1 Membuat diagram konfigurasi modul

Buat diagram konfigurasi modul.

Pilih modul yang diperlukan dari jendela Element Selection, dan seret dan lepas pada konfigurasi modul.



* Modul fungsi safety "R6SFM" diklasifikasikan dalam "CPU Extension".

* Mulai Juli 2020, modul dengan fungsi komunikasi keselamatan adalah modul jaringan "RJ71GN11-T2" (Ver.10 atau lebih baru).

Konfigurasikan pengaturan jaringan.

Ketika safety remote I/O diatur dalam konfigurasi jaringan, profil untuk safety remote I/O harus sudah didaftarkan. Jika profil safety remote I/O belum didaftarkan, daftarkan terlebih dahulu.

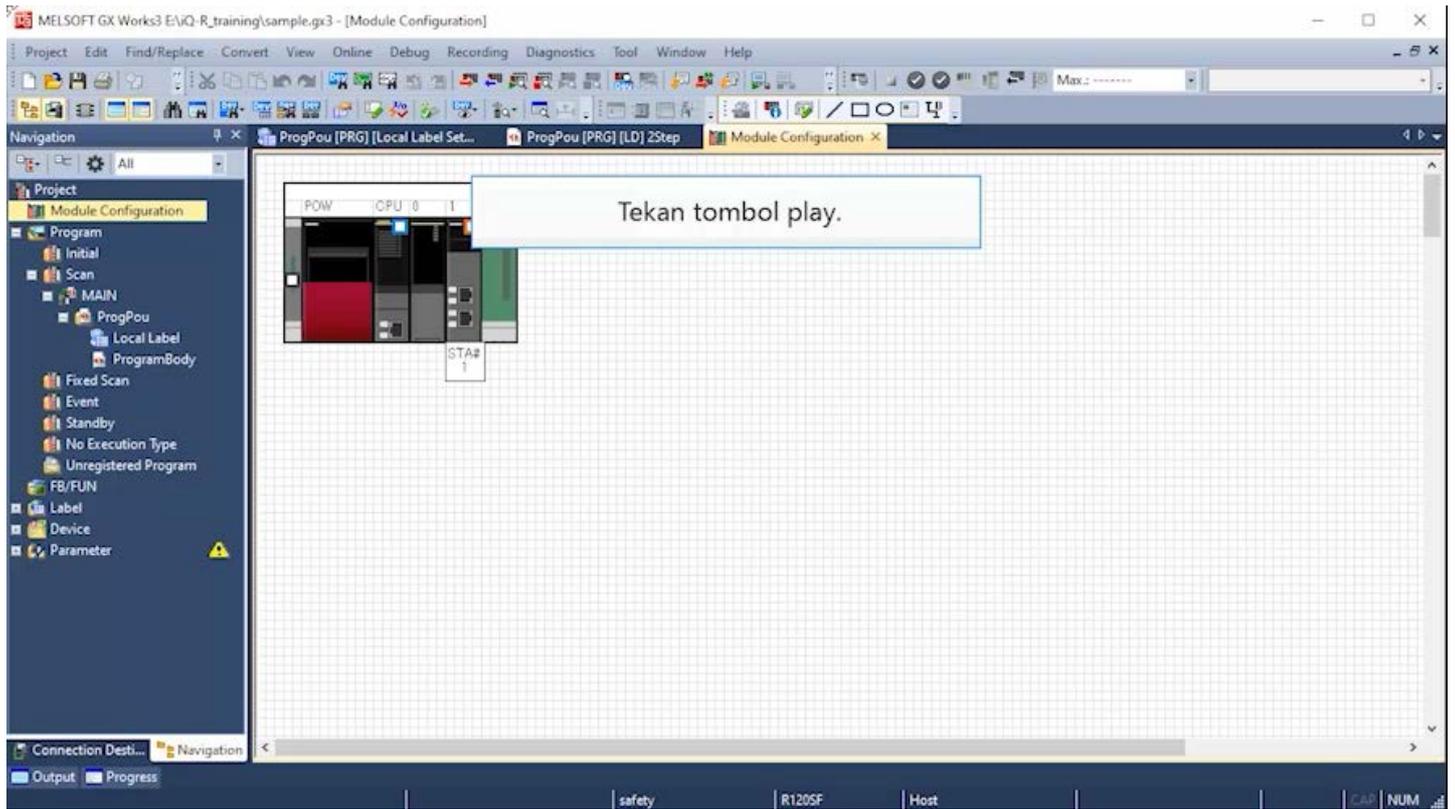
Profil safety remote I/O dapat diunduh dari Situs Web Mitsubishi Electric FA.

(Klik [di sini](#) untuk mengunduh.)

Untuk mendaftarkan profil ke GX Works3, pilih [Tool] - [Profile Management] - [Register] dengan proyek tidak dibuka, dan pilih file di jendela pendaftaran profil, lalu klik tombol [Register].

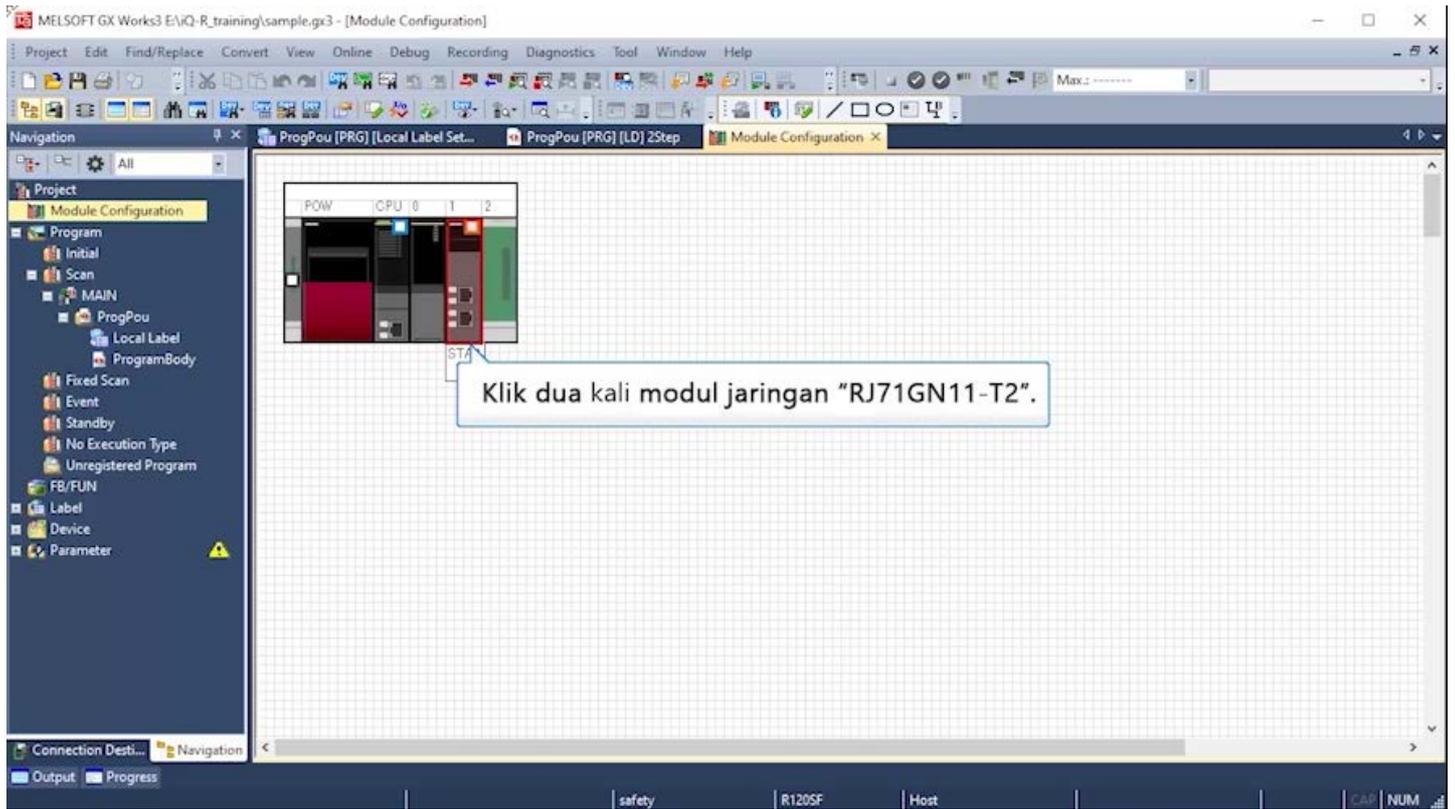
* Profil berbentuk file terkompresi (contoh: *.zip, *.ipar, *.cspp).

Daftar file terkompresi tanpa melakukan dekompresi.



2.4.2

Pengaturan konfigurasi jaringan



The screenshot displays the MELSOFT GX Works3 interface for configuring a module. The main window is titled "Setting Item" and shows a list of settings for the selected module, "0010-RJ71GN11-T2". A callout box points to the "Station Type" setting, which is currently set to "Local Station". The "Station No / IP Address Setting" section is also visible, showing the IP address "192.168.3.1".

Setting Item List

Item	Setting
Station Type	Local Station
Network No.	
Parameter Setting Method	
Station No / IP Address Setting	
Station No / IP Address Setting Method	Parameter Editor
Station No.	1
IP Address	192.168.3.1
Subnet Mask	
Default Gateway	

Explanation

Set the station type.

Buttons: Check, Restore the Default Settings, Apply

The screenshot displays the MELSOFT GX Works3 interface for configuring a module. The main window is titled "Setting Item" and shows a table of configuration items for the "0010-RJ71GN11-T2" module. A callout box points to a pull-down menu icon next to the "Station Type" field, with the text "Klik tombol menu pull-down." (Click the pull-down menu button).

Item	Setting
Station Type	Local Station
Network No.	1
Parameter Setting Method	Parameter Editor
Station No / IP Address Setting	Parameter Editor
Station No.	1
IP Address	192.168.0.1
Subnet Mask	
Default Gateway	

Below the table, there is an "Explanation" section with the text: "Select station type (network type) of CC-Link IE TSN module." At the bottom of the window, there are buttons for "Check", "Restore the Default Settings", and "Apply".

The screenshot displays the MELSOFT GX Works3 interface for configuring a network module. A dialog box is open, warning the user to discard all settings and return to defaults. The dialog text reads: "MELSOFT GX Works3", "Discard all setting content, change to default setting and then apply it.", and "Are you sure you want to continue?". Below the dialog, a callout box points to the "Yes" button with the text "Klik [Yes].".

The background window shows the "Setting Item List" and "Setting Item" panels. The "Setting Item" panel is currently displaying the configuration for "Station Type", which is set to "Master Station". Other visible settings include "Network No." (1) and "Parameter Setting Method" (Setting Method of Basic/Application Settings).

Item	Setting
Station Type	Master Station
Network No.	1
Parameter Setting Method	Setting Method of Basic/Application Settings

The screenshot displays the MELSOFT GX Works3 interface for configuring a module. The main window is titled "Setting Item" and shows a list of configuration items for the "0010-RJ71GN11-T2 Module Parameter".

Item	Setting
Station Type	Master Station
Network No.	1
Parameter Setting Method	Parameter Editor
Station No / IP Address Setting	Parameter Editor
Station No.	0
IP Address	192.168.0.250
Subnet Mask	
Default Gateway	

A red box highlights the IP Address field, and a callout bubble points to it with the text "Atur alamat IP." (Set IP address).

The interface also includes a "Setting Item List" on the left, a "Required Settings" section, and an "Explanation" section at the bottom. The status bar at the bottom shows "R120SF" and "Host".

MELSOFT GX Works3 E:\VQ-R_training\sample.gx3 - [0010:R/71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation: ProgPou [PRG] [Local Label Set...], ProgPou [PRG] [LD] 2Step, Module Configuration, 0010:R/71GN11-T2 Module Para...

Setting Item List: Input the Setting Item to Search

Setting Item:

Item	Setting
Station Type	Master Station
Network No.	1
Parameter Setting Method	Parameter Editor
Station No./IP Address Setting	Parameter Editor
Station No.	0
Address	192.168.0.253
Subnet Mask	
Default Gateway	

Explanation:
Set the IP address for the own node.
Ensure that the own node and the external device to be communicated with have the same class and subnet address.
Set the IP address to use for CO-Link IE TSN communication.
[Setting Range]
0.0.0.1 to 223.255.255.254 (00.00.00.01 to DFFF.FF.FE)

Buttons: Check, Restore the Default Settings, Apply

Navigation: Connection Dest..., Navigation, Output, Progress

Bottom status bar: safety | R120SF | Host | CAP | NUM

The screenshot displays the MELSOFT GX Works3 interface for configuring a module. The main window is titled "Setting Item" and shows a list of settings for "Network Configuration Settings". A red box highlights the "<Detailed Setting>" button next to the "Network Configuration Settings" item. A callout box with the text "Klik dua kali <Detailed Setting> di [Network Configuration Settings]." points to this button.

The "Setting Item" window contains the following table of settings:

Item	Setting
Network Configuration Settings	<Detailed Setting>
Refresh Settings	<Detailed Setting>
Setting in Units of μ s	Not Set
Communication Period Interval Setting (Do not Set it in Units of μ s)	1000.00 μ s
Communication Period Interval Setting (Set it in Units of μ s)	1000.00 μ s
System Reservation Time	20.00 μ s
Cyclic Transmission Time	500.00 μ s
Transient Transmission Time	400.00 μ s
Multiple Period Setting	
Normal-Speed	x4

Below the table, there is an "Explanation" section:

Explanation
Set the number of device points and assignments of slave station to the master station.

Buttons at the bottom of the window include "Check", "Restore the Default Settings", and "Apply".

CC-Link IE TSN Configuration (Start I/O: 0010)

Connected/Disconnected Module Detection Detailed Display

Mode Setting: Online (Unicast Mode) Assignment Method:

Cyclic Transmission Time (Min.): 14.00 us Communication Period Interval (Min.): 125.00 us

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RW _r Setting Points	RW _w Setting Points	ameter Automatic Set
0	Host Station	0	Master Station					

Jendela CC-Link IE TSN Configuration muncul.

Host Station

STA#0 Master Station
Total STA#0
Line/Star

Module List

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
- Master/Local Module
- Motion Module
- GOT2000 Series
- DC Input
- Transistor Output
- Analog Input
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined

Output

Error Warning

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows the configuration for a Host Station (STA# 0, Master Station). The Mode Setting is Online (Unicast Mode), and the Assignment Method is set to a specific method. The Cycle Transmission Time is 14.00 us, and the Communication Period Interval is 125.00 us.

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RW _r Setting Points	RW _w Setting Points	ameter Automatic Set
0	Host Station	0	Master Station					

The Module List on the right side of the window shows the following modules:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubishi)
- Master/Local Module
- Motion Module
- GOT2000 Series
- DC Input
- Transistor Output
- Analog Input
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined

A callout box with the text "Buka [I/O Combined] di Daftar Modul." points to the "I/O Combined" module in the list. The "Host Station" section in the bottom left shows the following parameters:

- STA#0 Master Station
- Total STA#0
- Line/Star

The Output section at the bottom shows an Error and Warning status.

The screenshot shows the MELSOFT CC-Link IE TSN Configuration software interface. The main window displays a table of modules for a Host Station (STA# 0, Master Station). The table has columns for No., Model Name, STA#, Station Type, RX Setting, RY Setting, RWr Setting, RWw Setting, and ameter Automatic Setl. The table contains one row: No. 0, Model Name Host Station, STA# 0, Station Type Master Station.

On the right side, there is a 'Module List' panel showing a tree view of modules. The 'I/O Combined' module is selected, and a list of modules is displayed below it:

Module Name	Points
NZ2GNSS2-16DTE	16 points
GN2B1-32DT	32 points
GN2B1-32DTE	32 points
GN2S1-32DT	32 points
GN2S1-32DTE	32 points

A callout box with a blue border and white background contains the text: "Atur modul gabungan safety remote I/O 'NZ2GNSS2-16DTE' dengan tindakan menyeret dan melepaskannya." An orange line points from this callout box to the 'NZ2GNSS2-16DTE' module in the Module List panel.

At the bottom of the software window, there is an 'Output' panel with 'Error' and 'Warning' indicators.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table of station configurations and a physical connection diagram.

Table Data:

No.	Model Name	STA#	Station	Setting	RWw Setting	ameter Automatic Set
0	Host Station	0	Master Station			
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4

Physical Connection Diagram:

The diagram shows a Host Station (STA#0) connected to a Remote Station (STA#1). The Remote Station is labeled "NZ2GNSS2-16DTE". A callout box points to the Remote Station with the text "Klik [Detailed Display].".

Module List:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubishi)
- Master/Local Module
- Motion Module
- GOT2000 Series
- DC Input
- Transistor Output
- Analog Input
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined
- NZ2GNSS2-16DTE 16 points
- NZ2GNZB1-32DT 32 points
- NZ2GNZB1-32DTE 32 points
- NZ2GNZS1-32DT 32 points
- NZ2GNZS1-32DTE 32 points

Output:

Error Warning

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with the following data:

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station								
1	NZ2GNSS2-16DTE							<input type="checkbox"/>	<Detail Setting>

A callout box points to the 'Points' column under 'LB Setting' for station 1, with the text: "Klik kolom poin di LB Setting."

Below the table, a network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE). The diagram includes a legend for STA#0 Master Station (Total STA#:1 Line/Star).

The right sidebar shows the 'Module List' for 'CC-Link IE TSN Selection' with the following items:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
 - Master/Local Module
 - Motion Module
 - GOT2000 Series
 - DC Input
 - Transistor Output
 - Analog Input
 - Analog Output
 - General purpose Inverter
 - General-Purpose AC Servo
 - I/O Combined
 - NZ2GNSS2-16DTE 16 points
 - NZ2GNZB1-32DT 32 points
 - NZ2GNZB1-32DTE 32 points
 - NZ2GNZS1-32DT 32 points
 - NZ2GNZS1-32DTE 32 points

The bottom status bar shows 'Output' with 'Error' and 'Warning' indicators.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table of station configurations with a callout box pointing to the 'Points' column for station 1.

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDD ing St
		Points	Start	End	Points	Start	End		
0	Host Station								
1	NZ2GNSS2-16DTE							<input type="checkbox"/>	<Detail Setting>

A callout box with the text "Masukkan '16' dalam Poin." points to the 'Points' cell for station 1.

Below the table, a network diagram shows a Host Station connected to a slave station labeled STA#1 (NZ2GNSS2-16DTE). A status box indicates: STA#0 Master Station, Total STA#1, Line/Star.

The right-hand side of the interface features a 'Module List' window showing the following modules and their point counts:

- NZ2GNSS2-16DTE: 16 points
- NZ2GNZB1-32DT: 32 points
- NZ2GNZB1-32DTE: 32 points
- NZ2GNZS1-32DT: 32 points
- NZ2GNZS1-32DTE: 32 points

The bottom of the interface shows an 'Output' window with 'Error' and 'Warning' indicators.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with columns for 'No.', 'Model Name', 'Points', 'Start', 'End', 'LW Setting', and 'Parameter Automatic Setting'. A callout box with the text 'Klik kolom Start di LB Setting.' points to the 'Start' column in the 'LB Setting' section.

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16							
1	NZ2GNSS2-16DTE								

Below the table, a network diagram shows a 'Host Station' connected to a 'STA#1' (NZ2GNSS2-16DTE) via a line. The diagram also shows a 'STA#0 Master Station' and 'Total STA#1 Line/Star'.

The right side of the interface features a 'Module List' panel with a tree view of modules, including 'General CC-Link IE TSN Module', 'CC-Link IE TSN Module (Mitsubis)', 'Master/Local Module', 'Motion Module', 'GOT2000 Series', 'DC Input', 'Transistor Output', 'Analog Input', 'Analog Output', 'General purpose Inverter', 'General-Purpose AC Servo', and 'I/O Combined'. Below the module list is an 'Outline' section with text: 'DC safety input/transistor safety output combined module (spring clamp terminal block type)'. A 'Specification' section is also visible.

The bottom of the interface shows an 'Output' panel with 'Error' and 'Warning' indicators.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with the following data:

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16							
1	NZ2GNSS2-16DTE							<input type="checkbox"/>	<Detail Setting>

A callout box with the text "Masukkan '0000' di Start." points to the 'Start' cell in the LB Setting row for station 1. Below the table, a network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE). The software interface includes a navigation pane on the left, a module list on the right, and an output window at the bottom.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with columns for LB Setting and LW Setting. A callout box points to the 'Points' column under 'LW Setting' with the text 'Klik kolom poin di LW Setting.'

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000						
1	NZ2GNSS2-16DTE								

Below the table, a network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE). The diagram includes a legend for STA#0 Master Station and STA#1 Line/Star.

On the right side, the 'Module List' panel shows the following modules and their point counts:

- NZ2GNSS2-16DTE: 16 points
- NZ2GN2B1-32DT: 32 points
- NZ2GN2B1-32DTE: 32 points
- NZ2GN2S1-32DT: 32 points
- NZ2GN2S1-32DTE: 32 points

The 'Output' panel at the bottom shows 'Error' and 'Warning' indicators.

The screenshot shows the MELSOFT CC-Link IE TSN Configuration software interface. The main window displays a table for configuring stations. A callout box highlights the 'Points' field in the 'LW Setting' row for station 1, with the text "Masukkan '16' dalam Poin." (Enter '16' in Points).

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDD ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F					
1	NZ2GNSS2-16DTE							<input type="checkbox"/>	<Detail Setting>

The interface also shows a navigation pane on the left, a module list on the right, and a network diagram at the bottom. The network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE).

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with columns for LB Setting and LW Setting. A callout box points to the 'Start' column under LW Setting.

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F	16				
1	NZ2GNSS2-16DTE								

Klik kolom Start di LW Setting.

The interface also includes a navigation pane on the left, a module list on the right, and a diagram at the bottom showing the network topology with a Host Station and a slave station (NZ2GNSS2-16DTE) connected via a line labeled STA#1.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table of station settings with a callout box pointing to the 'Start' field for station 1, containing the value '0000'. The callout text reads: "Masukkan '0000' di Start." Below the table is a network diagram showing a Host Station connected to a slave station (STA#1) labeled 'NZ2GNSS2-16DTE'.

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F	16				
1	NZ2GNSS2-16DTE							<input type="checkbox"/>	<Detail Setting>

Network Diagram:

- Host Station
- STA#0 Master Station
- Total STA#:1
- Line/Star
- NZ2GNSS2-16DTE

Module List (Right Panel):

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubishi)
- Master/Local Module
- Motion Module
- GOT2000 Series
- DC Input
- Transistor Output
- Analog Input
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined
- NZ2GNSS2-16DTE 16 points
- NZ2GNZB1-32DT 32 points
- NZ2GNZB1-32DTE 32 points
- NZ2GNZS1-32DT 32 points
- NZ2GNZS1-32DTE 32 points

Output Panel (Bottom):

- Error
- Warning

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table with the following data:

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDD ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F	16	0000			
1	NZ2GNSS2-16DTE						<input type="checkbox"/>	<Detail Setting>	

A callout box with the text "Pilih [Parameter Automatic setting]." points to the checkbox in the table. Below the table, a network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE). The software interface includes a navigation pane on the left, a module list on the right, and an output window at the bottom.

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows a table of station settings and a network diagram below it.

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDD ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F	16	0000	000F		
1	NZ2GNSS2-16DTE							<Detail Setting>	

Below the table, a network diagram shows a Host Station connected to STA#1 (NZ2GNSS2-16DTE). A callout box points to the "<Detail Setting>" button in the table with the text: "Klik dua kali [Detail Setting]."

The right sidebar shows a "Module List" with the following items:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubishi)
- Master/Local Module
- Motion Module
- 603000 Series
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined
- NZ2GNSS2-16DTE 16 points
- NZ2GN2B1-32DT 32 points
- NZ2GN2B1-32DTE 32 points
- NZ2GN2S1-32DT 32 points
- NZ2GN2S1-32DTE 32 points

The bottom status bar shows "Output" with "Error" and "Warning" indicators.

Parameter of Slave Station

Target Module Information: NZ2GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms					↓ to 1000	Set the
I/O LED indication setting								Set the
Safety authentication code							0x00000000 to 0	Set the
<input checked="" type="checkbox"/> Link speed setting								Set the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut								The ope
<input checked="" type="checkbox"/> input dark test pulse OFF tim								Set the
<input checked="" type="checkbox"/> Number of pulse output for e								Set the
<input checked="" type="checkbox"/> Fast logic pattern setting								Set the
<input checked="" type="checkbox"/> Fast logic Interlock mode set								When fly

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
-For information on items not displayed on the screen, please refer to the Operating Manual.

Enable safety module when succeed to write parameter

Execute Parameter Processing

Import... Export... Close with Discarding the Setting Close with Reflecting the Setting

MELSOFT GX Works3

Please input all the parameter values targeted in the process "Parameter auto-setting" when the read value and write value/setting value is reflected and closed.

OK

Klik [OK].

Target Module Information: N22GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: **Parameter auto-setting** Set the parameters that support parameter auto-setting.

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms			↓ to 1000	Set the
I/O LED indication setting	0	Hide abno...						Set the
Safety authentication code	0:FFFFFFF						0:00000000 to 0:	Set the
<input checked="" type="checkbox"/> Link speed setting	0	1Gbps						Set the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0	Not used						The ope
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0	400us						Set the
<input checked="" type="checkbox"/> Number of pulse output for in...	0	1 time						Set the
<input checked="" type="checkbox"/> Fast logic pattern setting	0	Not used						Set the
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0	Enable						When fly

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
-For information on items not displayed on the screen, please refer to the Operating Manual.

Enable safety module when succeed to write parameter

Execute Parameter Processing

Import... Export... Close with Discarding the Setting Close with Reflecting the Setting

Pastikan pemilihan Metode diatur ke "Parameter auto-setting".

Parameter of Slave Station

Target Module Information: N22GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms			↓ to 1000	Set the
I/O LED indication setting	0	Hide abno...						Set the
Safety authentication code	0:FFF						0:00000000 to 0	Set the
<input checked="" type="checkbox"/> Link speed setting	0	10Gb						Set the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0	Not						The ope
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0	400						Set the
<input checked="" type="checkbox"/> Number of pulse output for in...	0	1 fir						Set the
<input checked="" type="checkbox"/> Fast logic pattern setting	0	Not use						Set the
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0	Enable						When fly

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
-For information on items not displayed on the screen, please refer to the Operating Manual.

Enable safety module when succeed to write parameter

Execute Parameter Processing

Import... Export... Close with Discarding the Setting Close with Reflecting the Setting

Masukkan Write Value.
(Input dihilangkan di sini.)

Parameter of Slave Station

Target Module Information: N22GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting	Unit	Setting Range	Description
<input checked="" type="checkbox"/> Wiring selection of output	0	Not used			0	Not used		Set wiring
<input type="checkbox"/> Wiring selection of output	0	Not used			0	Not used		Set the
<input type="checkbox"/> Wiring selection of output	0	Not used			0	Not used		Set the
<input checked="" type="checkbox"/> Output dark test execution a...	0	Perform			0	Perform		Set whe
<input type="checkbox"/> Output dark test execution...	0	Perform			0	Perform		Set the
<input type="checkbox"/> Output dark test pulse OFF ti...	0	400us			0	400us		Set the
<input type="checkbox"/> Output dark test pulse OFF ti...	0	400us			0	400us		Set the
<input checked="" type="checkbox"/> Number of pulse output for o...	0	1 time			0	1 time		Set the
<input type="checkbox"/> Number of pulse output for o...	0	1 time			0	1 time		Set the
<input type="checkbox"/> Number of pulse output for o...	0	1 time			0	1 time		Set the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.

Close with Discarding the Setting **Close with Reflecting the Setting**

Setelah memasukkan Write Value, klik [Close with Reflecting the setting].

The screenshot displays the MELSOFT CC-Link IE TSN Configuration software interface. The main window shows the configuration for a CC-Link IE TSN network. The table below lists the stations:

No.	Model Name	LB Setting			LW Setting			Parameter Automatic Setting	PDO ing St
		Points	Start	End	Points	Start	End		
0	Host Station	16	0000	000F	16	0000	000F		
1	NZ2GNSS2-16DTE							<input checked="" type="checkbox"/>	<Detail Setting>

The network diagram shows a Host Station (STA#0) connected to a Slave Station (STA#1) labeled NZ2GNSS2-16DTE. The slave station is highlighted with a green box. The status bar at the bottom indicates "Error0" and "Warning0".

On the right side, the "Module List" window shows the selected modules for the slave station:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
- Master/Local Module
- Motion Module
- GOT2000 Series
- DC Input
- Transistor Output
- Analog Input
- Analog Output
- General purpose Inverter
- General-Purpose AC Servo
- I/O Combined
- NZ2GNSS2-16DTE 16 points
- NZ2GNZB1-32DT 32 points
- NZ2GNZB1-32DTE 32 points
- NZ2GNZS1-32DT 32 points
- NZ2GNZS1-32DTE 32 points

The "Outline" window shows the selected module: DC safety input/transistor safety output combined module (spring).

Pengaturan konfigurasi jaringan sekarang telah selesai.
Klik untuk melanjutkan ke halaman berikutnya.

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring safety communication. The 'Setting Item List' panel on the left shows a tree view with 'Basic Settings' selected. A callout box with the text 'Klik [Basic Settings]' points to this selection. The 'Setting Item' panel on the right shows a table of configuration items:

Item	Setting
Station Type	
Station Type	Master Station
Network No.	
Network No.	1
Parameter Setting Method	
Setting Method of Basic/Application Settings	Parameter Editor
Station No./IP Address Setting	
Station No./IP Address Setting Method	Parameter Editor
Station No.	0
Station No.	
IP Address	192.168.3.253
Subnet Mask	

The 'Explanation' section below the table states: 'Set the station type.' At the bottom of the window, there are buttons for 'Check', 'Restore the Default Settings', and 'Apply'.

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring safety communication parameters. The 'Setting Item List' window shows a tree structure where 'Basic Settings' is expanded to 'Network Configuration'. The 'Setting Item' window provides a detailed view of these settings.

Item	Setting
Network Configuration Settings	<Detailed Setting>
Refresh Settings	<Detailed Setting>
Network Topology	Line/Star
Communication Period Setting	
Setting in Units of 1us	Not Set
Communication Period Interval Setting (Do not Set it in Units of 1us)	1000.00 us
Communication Period Interval Setting (Set it in Units of 1us)	1000.00 us
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us

The 'Explanation' section states: "Set the network configuration." Below the table are buttons for 'Check', 'Restore the Default Settings', and 'Apply'. A callout box with the text 'Klik' and a downward arrow points to the 'Apply' button.

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring a Mitsubishi PLC module. The main window is titled "MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]". The "Setting Item List" pane on the left shows a tree structure with "Safety Communication" selected. The "Setting Item" pane on the right shows a table of settings for the selected item.

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Not to Use
Safety Communication Setting	<Detailed Setting>

An explanation box is overlaid on the "To Use or Not to Use the Safety Communication Setting" row, stating: "Klik [To Use or Not to Use the Safety Communication Setting].". Below the table, there are buttons for "Check", "Restore the Default Settings", and "Apply".

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring safety communication settings. The main window is titled "Setting Item List" and "Setting Item". The "Setting Item" table lists various parameters and their current values:

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Not to Use
Safety Communication Setting	<Detailed Setting>

A callout box with the text "Klik tombol menu pull-down." points to the pull-down menu of the "To Use or Not to Use the Safety Communication Setting" parameter. Below the table, there is an "Explanation" section with the text "Select whether to use the Safety Communication Setting". At the bottom of the window, there are buttons for "Check", "Restore the Default Settings", and "Apply".

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring safety communication settings. The 'Setting Item List' on the left shows a tree structure with 'Safety Communication' expanded. The 'Setting Item' table on the right lists various parameters, with 'To Use or Not to Use the Safety Communication Setting' highlighted. The dropdown menu for this setting is open, showing 'Use' as the selected option. An 'Explanation' box below the table states: 'Select whether to use the Safety Communication Setting.' A callout box with the text 'Pilih "Use".' points to the 'Use' option in the dropdown menu.

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Not to Use
Safety Communication Setting	Not to Use

Explanation
Select whether to use the Safety Communication Setting.

Pilih "Use".

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot shows the MELSOFT GX Works3 interface for configuring safety communication settings. The 'Setting Item List' on the left shows a tree view with 'Safety Communication' selected. The 'Setting Item' table on the right lists various parameters, with 'Safety Communication Setting' highlighted. The 'To Use or Not to Use the Safety Communication Setting' dropdown is set to 'Use'. A callout box points to the '<Detailed Setting>' option in the dropdown, with the instruction: 'Klik dua kali <Detailed Setting> in [Safety Communication Setting].'

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Use
Safety Communication Setting	<Detailed Setting>

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot shows the MELSOFT GX Works3 interface. A dialog box titled "MELSOFT GX Works3" is displayed in the center, containing the following text:

Please note the following points to set the safety communication setting.

- The settings will be deleted under the following conditions.
 - Module information is deleted.
 - Station type is changed.
 - Parameter setting method is changed.
 - To Use or Not to Use the Safety Communication Setting is changed to 'Not Use'.
 - Network Configuration setting is required to set the Safety Communication Setting for the local network. Any setting changes after setting the Safety Communication Setting will no be reflected. Please set it again if it is the case.
 - To execute safety communication with a remote device station, please write parameters through 'Parameter Processing of Slave Station' for the target module via 'CC-Link IE TSN Configuration' ('Network Configuration Settings' -> 'Detailed Setting').

The dialog box has an "OK" button highlighted with a red box. A blue callout bubble points to the "OK" button with the text "Klik [OK].".

In the background, the software interface shows the "Module Configuration" window for "0010:RJ71GN11-T2". The "Setting" list includes:

Setting
20.00 us
500.00 us
480.00 us
x4
x16
Authentication Clas
4 times
ation Setting
Use
<Detailed Settin...

The "OK" button is highlighted with a red box, and a blue callout bubble points to it with the text "Klik [OK].".

Konfigurasi pengaturan komunikasi keselamatan.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Safety Communication Setting

Cyclic Transmission Time(Minimum value) 17.00 us Communi 125.00 us Setting Method Start/End

Jendela Safety Communication Setting akan muncul.

No.	Communication Destination	Network Configuration				Configured Module			Open System	Sending Interval Monitoring Time [ms]
		Network No.	Station No.	IP Address	Station Type	Model Name	Communication Destination	PLC No.		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Check Restore the Default Settings Output to File (for Setting Confirmation)...

Parameter

System Parameter

R120SF CPU

Connection Des... Navigation

Item List Find Result Check Restore the Default Settings

Apply

Output Progress

safety R120SF Host

Konfigurasi pengaturan komunikasi keselamatan.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Safety Communication Setting

Cyclic Transmission Time(Minimum value) 17.00 us Communication Period Interval(Minimum value) 125.00 us Setting Method Start/End

No.	Communication Destination	Network Configuration				Configured Module			Open System	Sending Interval Monitoring Time [ms]
		Network No.	Station No.	IP Address	Station Type	Model Name	Communication Destination	PLC No.		
1	▼						▼	▼	▼	
2	▼						▼	▼	▼	
3	▼						▼	▼	▼	
4	▼						▼	▼	▼	
5	▼						▼	▼	▼	
6	▼						▼	▼	▼	
7	▼						▼	▼	▼	
8	▼						▼	▼	▼	
9	▼						▼	▼	▼	
10	▼						▼	▼	▼	

Check Restore the Default Settings Output to File (for Setting Confirmation)...

Parameter System Parameter R120SFCPU Connection Des... Navigation

Item List Find Result Check Restore the Default Settings Apply

safety R120SF Host

Konfigurasi pengaturan komunikasi keselamatan.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Safety Communication Setting

Cyclic Transmission Time(Minimum value) 17.00 us Communication Period Interval(Minimum value) 125.00 us Setting Method Start/End

No.	Communication Destination	Network Configuration				Configured Module			Open System	Sending Interval Monitoring Time [ms]
		Network No.	Station No.	IP Address	Station Type	Model Name	Communication Destination	PLC No.		
1										
2										
3	Local Network									
4										
5										
6										
7										
8										
9										
10										

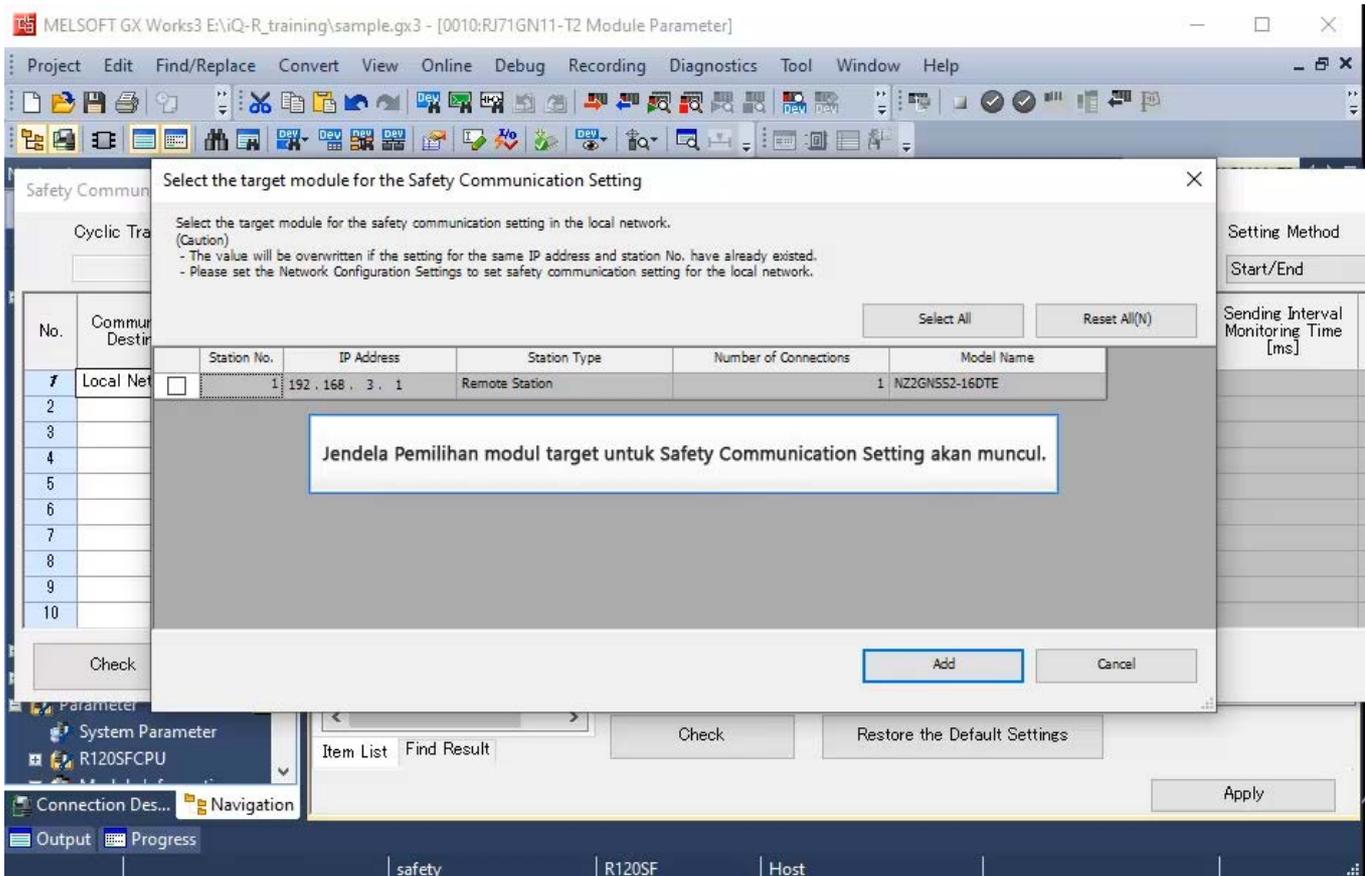
Check Restore the Default Settings Output to File (for Setting Confirmation)...

Parameter System Parameter R120SFCPU Connection Des... Navigation

Item List Find Result Check Restore the Default Settings Apply

safety R120SF Host

Konfigurasi pengaturan komunikasi keselamatan.



MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Safety Communication

Select the target module for the Safety Communication Setting

Select the target module for the safety communication setting in the local network.
(Caution)
- The value will be overwritten if the setting for the same IP address and station No. have already existed.
- Please set the Network Configuration Settings to set safety communication setting for the local network.

Select All Reset All(N)

No.	Communication Destination	Station No.	IP Address	Station Type	Number of Connections	Model Name
1	Local Network	1	192.168.3.1	Remote Station	1	NZ2GNSS2-16DTE
2						
3						
4						
5						
6						
7						
8						
9						
10						

Jendela Pemilihan modul target untuk Safety Communication Setting akan muncul.

Check Add Cancel

System Parameter R120SF CPU Connection Description Navigation

Item List Find Result Check Restore the Default Settings Apply

safety | R120SF | Host

Konfigurasi pengaturan komunikasi keselamatan.

Select the target module for the Safety Communication Setting

Select the target module for the safety communication setting in the local network.
(Caution)
- The value will be overwritten if the setting for the same IP address and station No. have already existed.
- Please set the Network Configuration Settings to set safety communication setting for the local network.

Select All Reset All(N)

No.	Station No.	IP Address	Station Type	Number of Connections	Model Name
1	1	192.168.3.1	Remote Station	1	NZ2GNSS2-16DTE
2					
3					
4					
5					
6					
7					
8					
9					
10					

Pilih mesin target untuk komunikasi keselamatan.

Check Add Cancel

System Parameter
R120SFCPU
Connection Des...
Navigation
Output Progress

Item List Find Result Check Restore the Default Settings Apply

Konfigurasi pengaturan komunikasi keselamatan.

Select the target module for the Safety Communication Setting

Select the target module for the safety communication setting in the local network.
(Caution)
- The value will be overwritten if the setting for the same IP address and station No. have already existed.
- Please set the Network Configuration Settings to set safety communication setting for the local network.

Select All Reset All(N)

No.	Station No.	IP Address	Station Type	Number of Connections	Model Name
1	1	192.168.3.1	Remote Station	1	NZ2GNSS2-16DTE
2					
3					
4					
5					
6					
7					
8					
9					
10					

Check Add Cancel

Item List Find Result Check Restore Apply

Klik [Add].

Konfigurasi pengaturan komunikasi keselamatan.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Safety Communication Setting

Cyclic Transmission Time(Minimum value) 20.00 us Communication Period Interval(Minimum value) 135.00 us Setting Method Start/End

No.	Communication Destination	Network Configuration				Configured Module				Sending Interval Monitoring Time [ms]
		Network No.	Station No.	IP Address	Station Type	Model Name	Communication Destination	PLC No.	Open System	
1	Local Network	1	1	192.168.3.1	Remote Station	NZ2GNSS2-16E			Active	35.0
2										
3										
4										
5										
6										
7										
8										
9										
10										

Masukkan deskripsi setelan.
(Input dihilangkan di sini.)

Check Restore the Default Settings Output to File (for Setting Confirmation)...

Parameter

- System Parameter
- R120SFCPU
- Connection Des...
- Navigation

Item List Find Result Check Restore the Default Settings Apply

Output Progress

safety R120SF Host

Konfigurasi pengaturan komunikasi keselamatan.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Setting Method
Start/End

Refresh Time [s]

	Receive Data Storage Device				Send Data Storage Device				Safety Authentication Code
	Device Name	Points	Start	End	Device Name	Points	Start	End	
60.0	Destination Station-> SA#X	16	001000	00100F	SA#Y	16	001000	00100F	FFFFFFF
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station
	Destination Station->								->Destination Station

Confirmation)... OK Cancel

Parameter
System Parameter
R120SF CPU
Connection Des... Navigation
Output Progress

Item List Find Result

Setelah selesai memasukkan deskripsi pengaturan, klik [OK].

Apply

safety | R120SF | Host

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface for configuring safety communication settings. The main window is titled "Setting Item" and shows a list of settings for the selected item, "Safety Communication Setting". The settings are as follows:

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Use
Safety Communication Setting	<Detailed Settin...

The "Safety Communication Setting" section is highlighted in yellow. Below the settings table, there is an "Explanation" section that reads: "Set the connection to execute safety communication and the transfer range of safety device." At the bottom of the window, there are buttons for "Check", "Restore the Default Settings", and "Apply". A red box highlights the "Apply" button, with a callout bubble containing the text "Klik [Apply].".

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot shows the MELSOFT GX Works3 interface for configuring safety communication. The main window displays the 'Setting Item List' and 'Setting Item' panels. The 'Setting Item' panel shows a table of safety communication parameters:

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	x4
	x16
Authentication Class	Authentication Class
	4 times
To Use or Not to Use the Safety Communication Setting	Use

A warning box is overlaid on the screen with the following text:

<Caution>
 Ketika [To Use or Not to Use the Safety Communication Setting] diubah menjadi "Not to Use" setelah mengonfigurasi pengaturan komunikasi keselamatan, semua deskripsi pengaturan yang diatur dalam Detailed Setting akan dihapus.

The 'Safety Communication Setting' section is highlighted, showing the 'To Use or Not to Use the Safety Communication Setting' set to 'Use'. Below this, there is an 'Explanation' section:

Explanation
 Set the connection to execute safety communication and the transfer range of safety device.

Buttons for 'Check', 'Restore the Default Settings', and 'Apply' are visible at the bottom of the settings panel.

Konfigurasi pengaturan komunikasi keselamatan.

The screenshot displays the MELSOFT GX Works3 interface. The main window shows the 'Setting Item List' and 'Setting Item' panels. The 'Setting Item' panel is currently displaying the 'Safety Communication Setting' for the module '0010:RJ71GN11-T2'. The settings are as follows:

Item	Setting
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us
Multiple Period Setting	
Normal-Speed	x4
Low-Speed	x16
Connection Device Information	
Authentication Class Setting	Authentication Clas
Slave Station Setting	
Disconnection Detection Setting	4 times
Safety Communication Setting	
To Use or Not to Use the Safety Communication Setting	Use
Safety Communication Setting	<Detailed Settin...

The 'Explanation' section below the table states: 'Set the connection to execute safety communication and the transfer range of safety device.'

A 'Check' button is visible below the settings. A callout box with a right-pointing arrow contains the text: 'Pengaturan komunikasi keselamatan sekarang telah selesai. Klik > untuk melanjutkan ke halaman berikutnya.'

Aktifkan pengaturan keselamatan.

Sebelum mengaktifkan pengaturan keselamatan, tulis parameter yang ditetapkan.

2.6.1

Menerapkan konfigurasi jaringan ke mesin yang sebenarnya

Terapkan konfigurasi jaringan ke mesin yang sebenarnya.

Pilih [Online] - [Write to PLC] dari menu untuk menampilkan jendela Online Data Operation.

Pilih System Parameter/CPU Parameter(Standard/Safety) dan Module Parameter, lalu klik [Execute].

The screenshot shows the 'Online Data Operation' window with the following components:

- Menu:** 'Write to PLC' is highlighted in the top-left menu.
- Table:** A table with columns: Module Name/Data Name, checkboxes, Detail, Title, Last Change, and Size (Byte). The 'System Parameter/CPU Parameter (...)' and 'Module Parameter' rows have their checkboxes checked.
- Memory Capacity:** A section at the bottom showing memory usage for Program Memory, Data Memory, Device/Label Memory, and SD Memory Card, all currently at 0.0KB.
- Buttons:** 'Execute' and 'Close' buttons are at the bottom right, with 'Execute' highlighted.

Module Name/Data Name		Detail	Title	Last Change	Size (Byte)
sample	<input type="checkbox"/>				
Parameter	<input type="checkbox"/>				
System Parameter/CPU Parameter (...)	<input checked="" type="checkbox"/>			2020/11/25 14:20:01	Not Calculated
Module Parameter	<input checked="" type="checkbox"/>			2020/11/25 14:20:00	Not Calculated
Memory Card Parameter	<input type="checkbox"/>			2020/11/25 14:20:01	Not Calculated
Remote Password	<input type="checkbox"/>			2020/11/25 14:20:01	Not Calculated
Global Label	<input type="checkbox"/>				
Global Label Setting	<input type="checkbox"/>			2020/11/25 14:20:12	Not Calculated
Program	<input type="checkbox"/>	Detail			
MAIN	<input type="checkbox"/>			2020/11/25 14:20:12	Not Calculated
Device Memory	<input type="checkbox"/>				
MAIN	<input type="checkbox"/>	Detail		2020/11/25 14:20:12	-

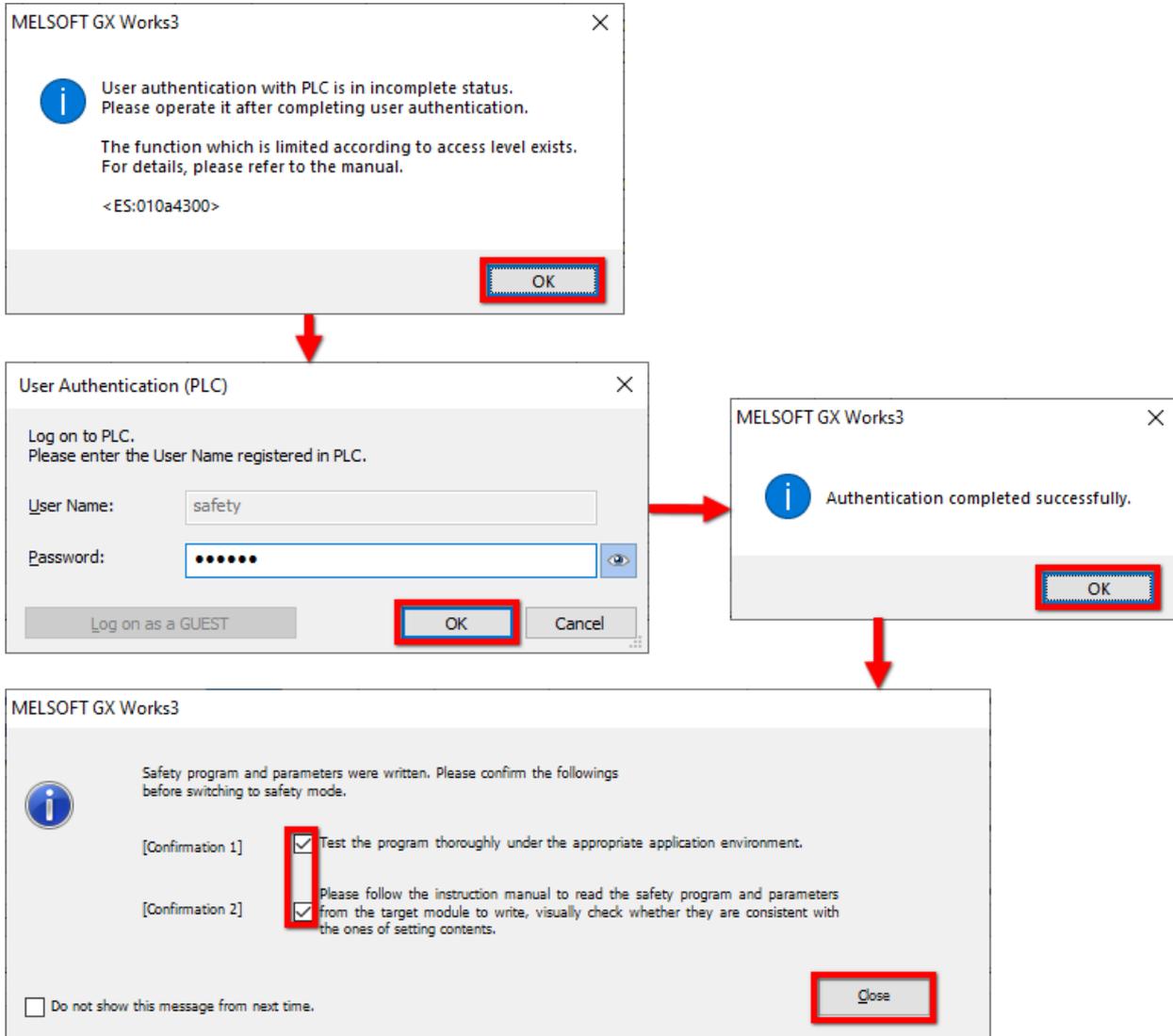
2.6.1

Menerapkan konfigurasi jaringan ke mesin yang sebenarnya

Jika Anda belum masuk ke PLC, autentikasi pengguna diperlukan.

Ketika jendela konfirmasi muncul, klik [OK]. Masukkan nama pengguna dan kata sandi, dan klik [OK].

Saat penulisan ke PLC selesai, jendela konfirmasi akan muncul. Periksa item konfirmasi, dan klik [Close].



* e-Manual Viewer dijalankan setiap kali data ditulis ke safety CPU.

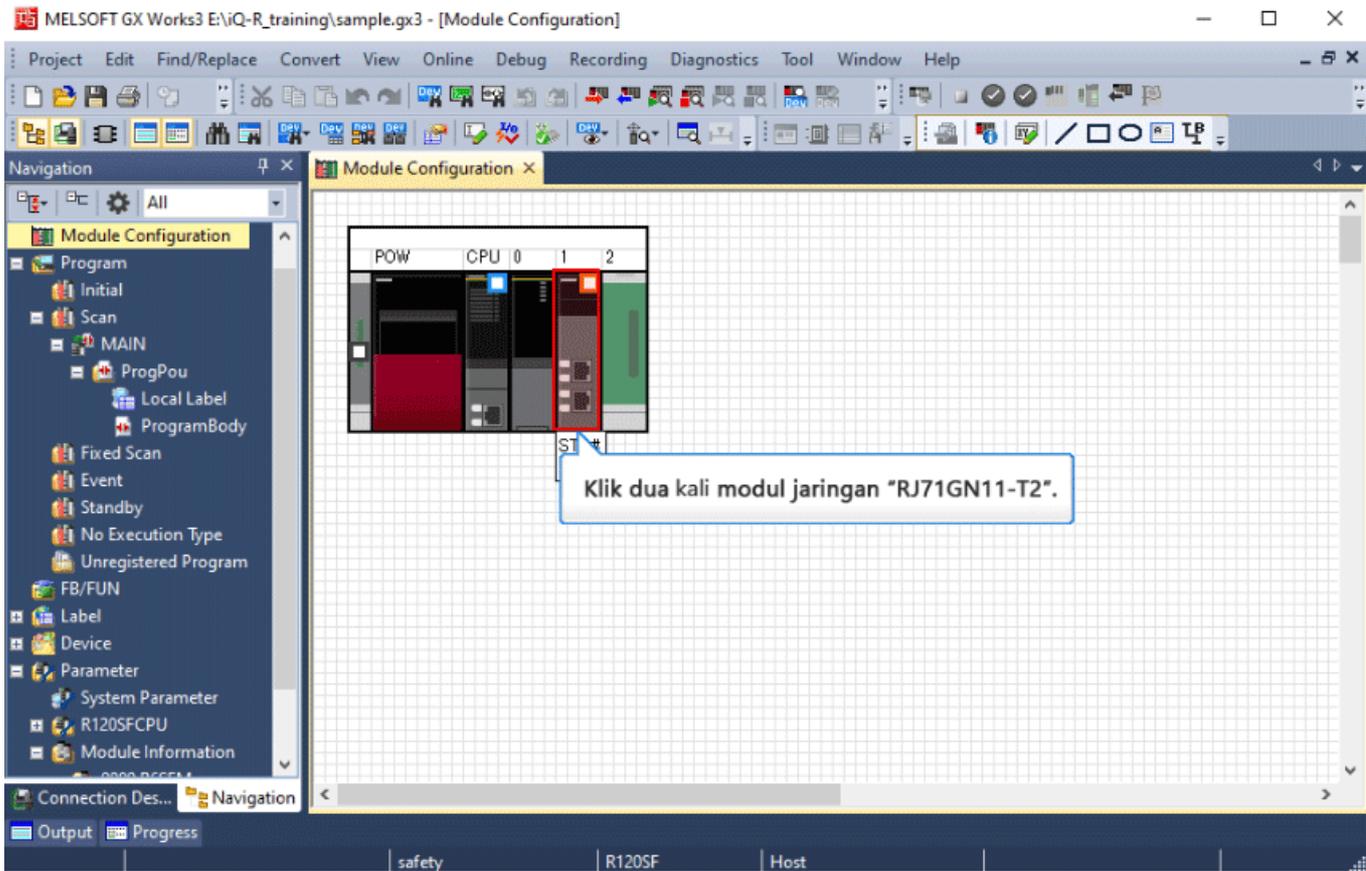
<Caution>

Setelah mengubah parameter, diperlukan pengaturan ulang (reset) safety CPU.

2.6.2

Mengaktifkan modul keselamatan

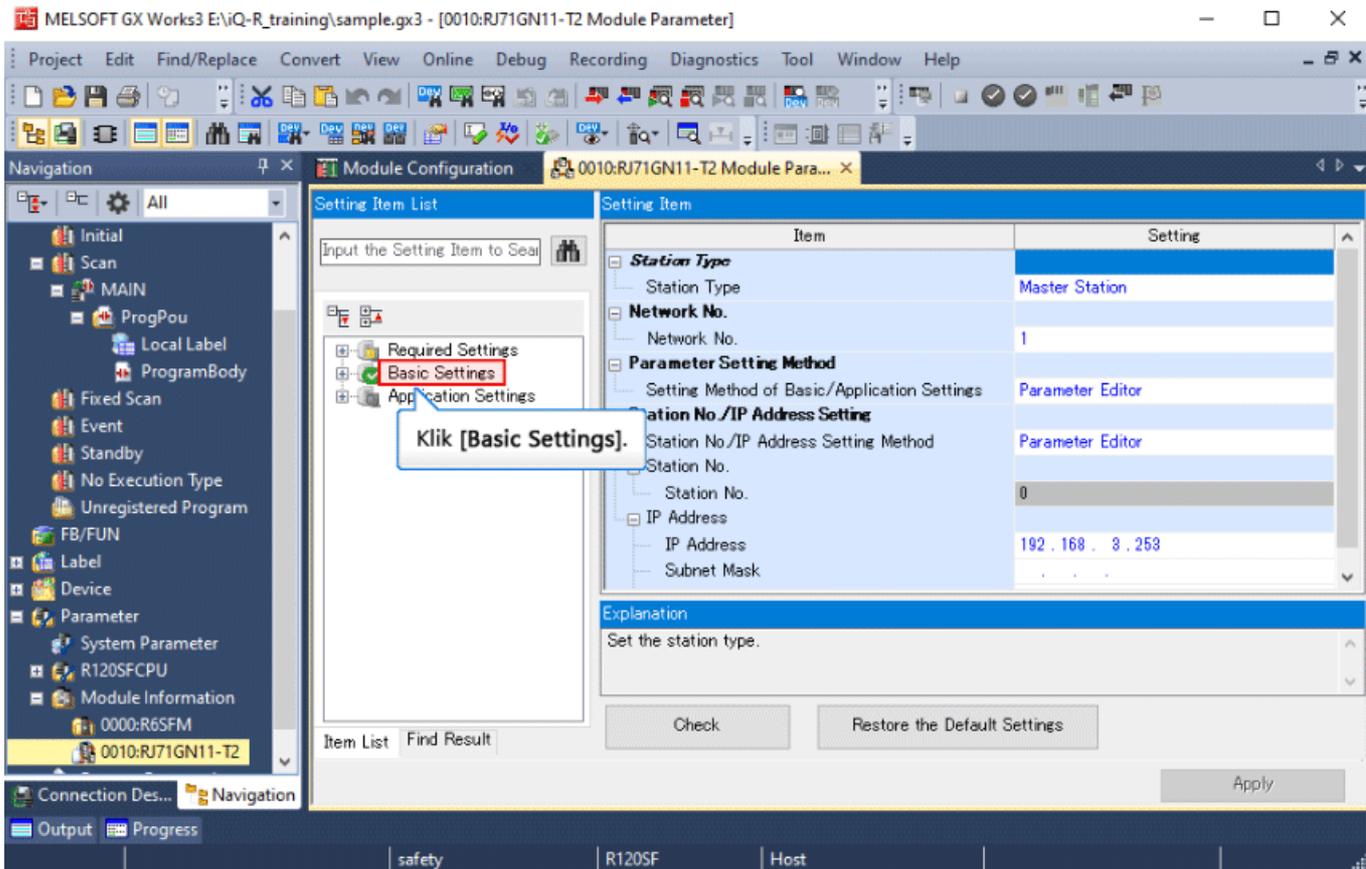
Aktifkan pemrosesan pada safety module.



2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.



The screenshot displays the MELSOFT GX Works3 interface for configuring a safety module. The 'Setting Item List' pane on the left shows a tree view with 'Basic Settings' highlighted. A callout box points to this item with the text 'Klik [Basic Settings]'. The main 'Setting Item' pane shows a table of settings for the selected item.

Item	Setting
Station Type	
Station Type	Master Station
Network No.	
Network No.	1
Parameter Setting Method	
Setting Method of Basic/Application Settings	Parameter Editor
Station No./IP Address Setting	
Station No./IP Address Setting Method	Parameter Editor
Station No.	0
IP Address	
IP Address	192 . 168 . 3 . 253
Subnet Mask	

Below the table, there is an 'Explanation' section with the text: 'Set the station type.' At the bottom of the main pane, there are buttons for 'Check', 'Restore the Default Settings', and 'Apply'.

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot shows the MELSOFT GX Works3 interface for configuring a safety module. The main window is titled "0010:RJ71GN11-T2 Module Parameter". The left sidebar shows a tree view of the project structure, with the "0010:RJ71GN11-T2" module selected. The main area is divided into two panes: "Setting Item List" and "Setting Item".

The "Setting Item List" pane shows a search bar and a list of settings: Required Settings, Basic Settings (checked), and Application Settings.

The "Setting Item" pane shows a table of settings for the selected module. The "Network Configuration Settings" section is expanded, and a callout box points to the "<Detailed Setting>" link. The callout box contains the text: "Klik dua kali <Detailed Setting> di [Network Configuration Settings]."

Item	Setting
Network Configuration Settings	
Network Configuration Settings	<Detailed Setting>
Refresh Settings	
Refresh Settings	<Detailed Setting>
Network Topology	
Network Topology	<Detailed Setting>
Communication Period Setting	
Basic Period Setting	<Detailed Setting>
Setting in Units of 1us	Not Set
Communication Period Interval Setting (Do not Set it in Units of 1us)	1000.00 us
Communication Period Interval Setting (Set it in Units of 1us)	1000.00 us
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us

The "Explanation" section below the table states: "Set the network configuration." At the bottom of the window, there are buttons for "Check", "Restore the Default Settings", and "Apply".

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. The main window shows configuration parameters and a table of stations. A text box in the center of the main window reads 'Jendela CC-Link IE TSN Configuration muncul.' Below the table is a network diagram showing a 'Host Station' (STA#0) connected to a 'Remote Station' (STA#1) labeled 'NZ2GNSS2-16DTE'.

Mode Setting: Online (Unicast Mode) Assignment Method: [Dropdown]
Cyclic Transmission Time (Min.): 17.00 us Communication Period Interval (Min.): 125.00 us

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Setting Points	im
0	Host Station	0	Master Station					
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4	<input checked="" type="checkbox"/>

Module List:
CC-Link IE TSN Selection | Filter
General CC-Link IE TSN
CC-Link IE TSN Module
Master/Local Module
Motion Module
GOT2000 Series
DC Input
Transistor Output
Analog Input
Analog Output
General purpose Inverter
General-Purpose AC Drive
I/O Combined

Host Station
STA#0 Master Station
Total STA#:1 Line/Star
NZ2GNSS2-16DTE

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. At the top, there are menu options: 'CC-Link IE TSN Configuration', 'Edit', 'View', 'Close with Discarding the Setting', and 'Close with Reflecting the Setting'. Below the menu, there are tabs for 'Connected/Disconnected Module Detection' and 'Detailed Display'. The 'Mode Setting' is set to 'Online (Unicast Mode)' and the 'Assignment Method' is set to 'Assignment Method:'. The 'Cyclic Transmission Time (Min.)' is 17.00 us and the 'Communication Period Interval (Min.)' is 125.00 us.

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Setting Points	im
0	Host Station	0	Master Station					
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4	<input checked="" type="checkbox"/>

A callout box points to the 'im' column for STA#1, containing the text: 'Klik ikon safety remote I/O. (Klik kanan pada Actual operation)'. Below the table, a diagram shows the network topology. A 'Host Station' is connected to 'STA#1' (NZ2GNSS2-16DTE). A status box on the left indicates: 'Host Station', 'STA#0 Master Station', and 'Total STA#:1 Line/Star'.

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. The main window shows configuration parameters for a CC-Link IE TSN network. The 'Mode Setting' is set to 'Online (Unicast Mode)'. The 'Cyclic Transmission Time (Min.)' is 17.00 us, and the 'Communication Period Interval (Min.)' is 125.00 us. A table lists the stations in the network:

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Setting Points
0	Host Station	0	Master Station				
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4

Below the table, a diagram shows the connection between the Host Station (STA#0) and the Remote Station (STA#1). A context menu is open over the Remote Station, with the 'Online' option selected. A callout box points to this option with the text 'Pilih [Online].'. The 'Module List' on the right side of the window shows various modules, including 'General CC-Link IE TSN Module' and 'CC-Link IE TSN Module (Mitsubishi)'. The 'Output' window at the bottom shows no errors or warnings.

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. The main window shows a table of stations and a network diagram. A context menu is open over the 'NZZGNSS2-16DTE' station (STA#1), with the 'Command Execution of Slave Station...' option highlighted in red. A callout box points to this option with the text 'Pilih [Command Execution of Slave Station].'. The 'Module List' on the right shows various modules, and the 'Output' window at the bottom shows 'Error' and 'Warning' icons.

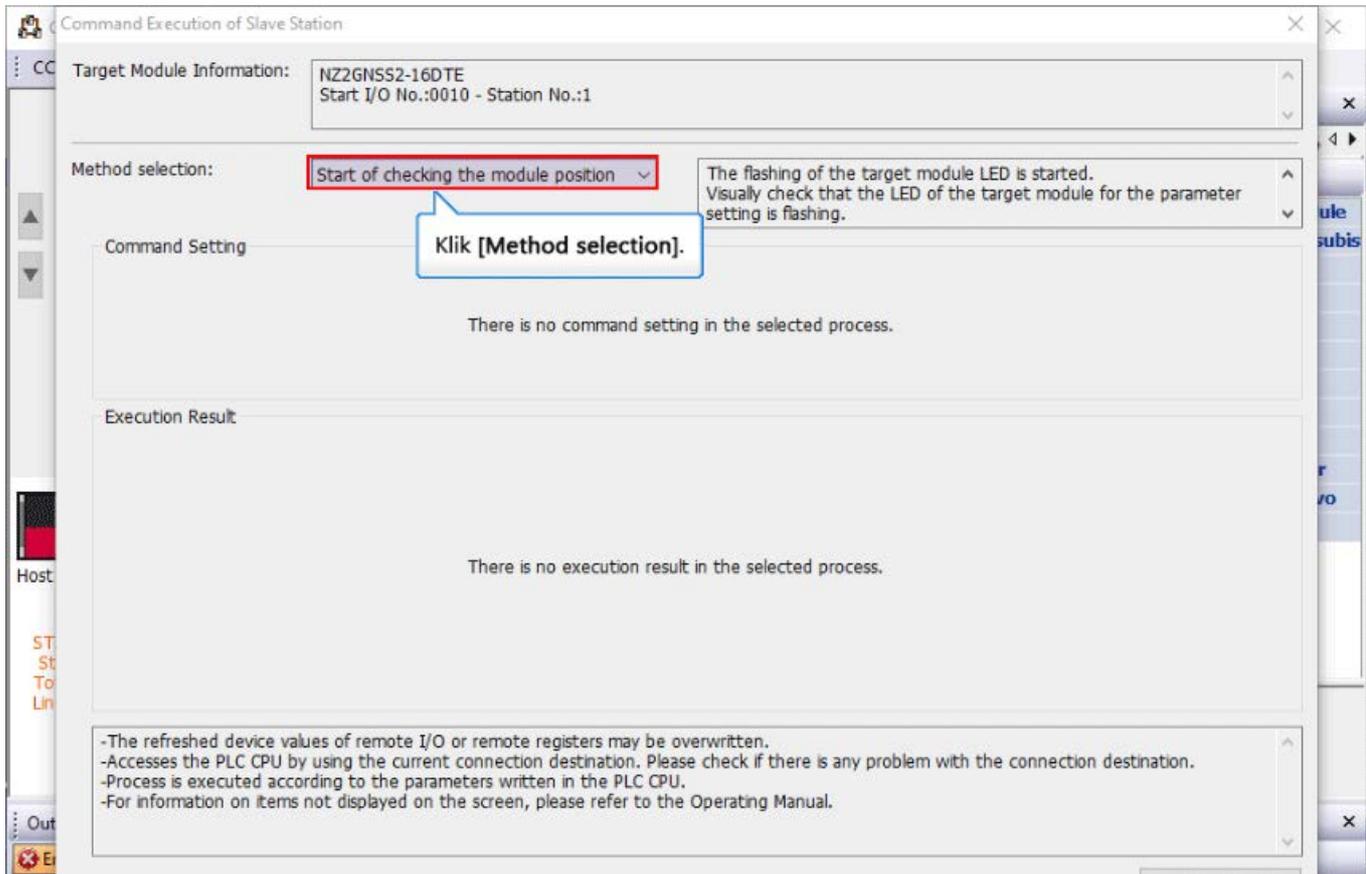
No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Points
0	Host Station	0	Master Station				
1	NZZGNSS2-16DTE	1	Remote Station	16	16	4	4

Host Station
STA#0 Master Station
Total STA#:1
Line/Star

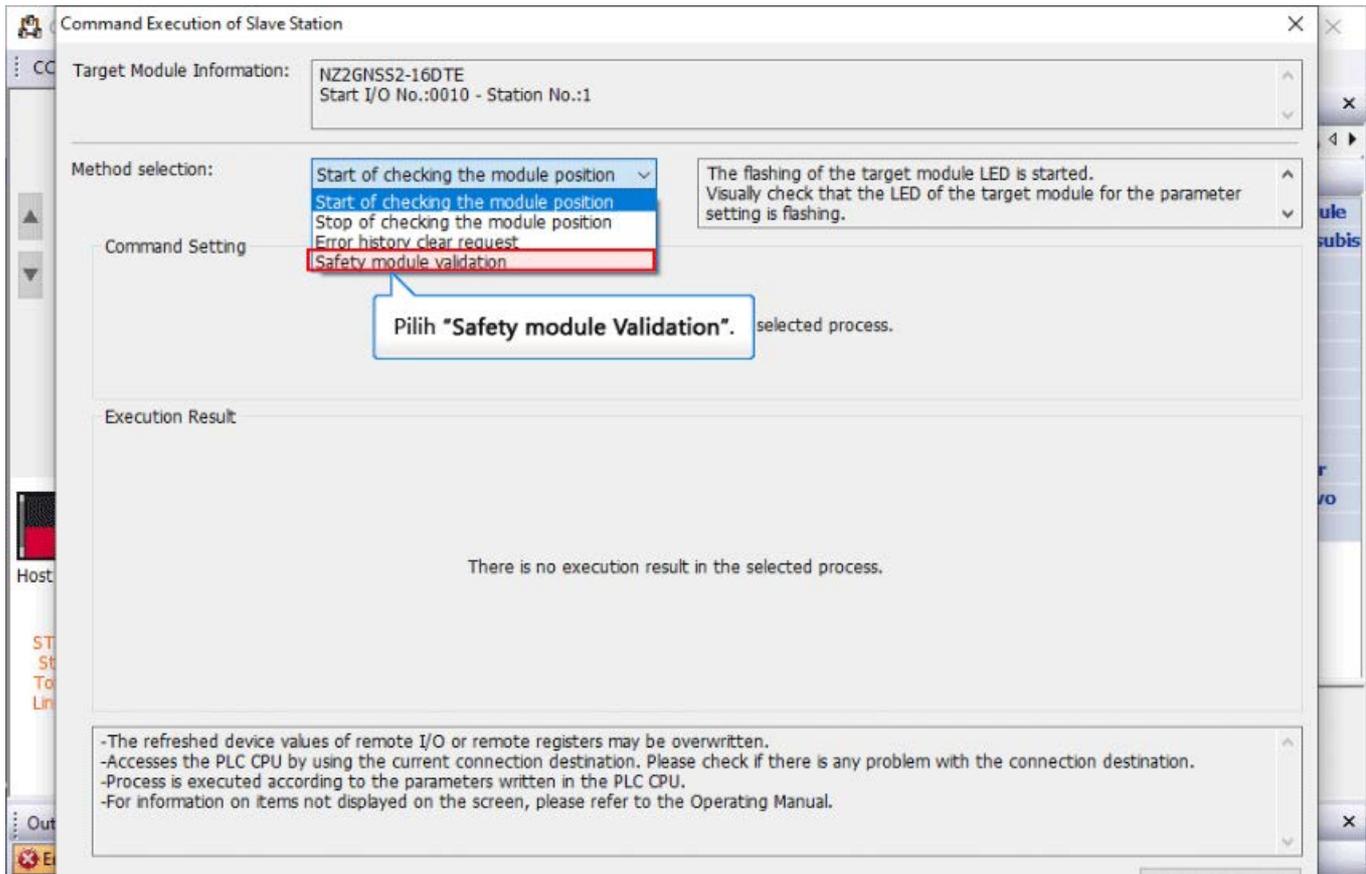
STA#1

Output
Error Warning

Aktifkan pemrosesan pada safety module.



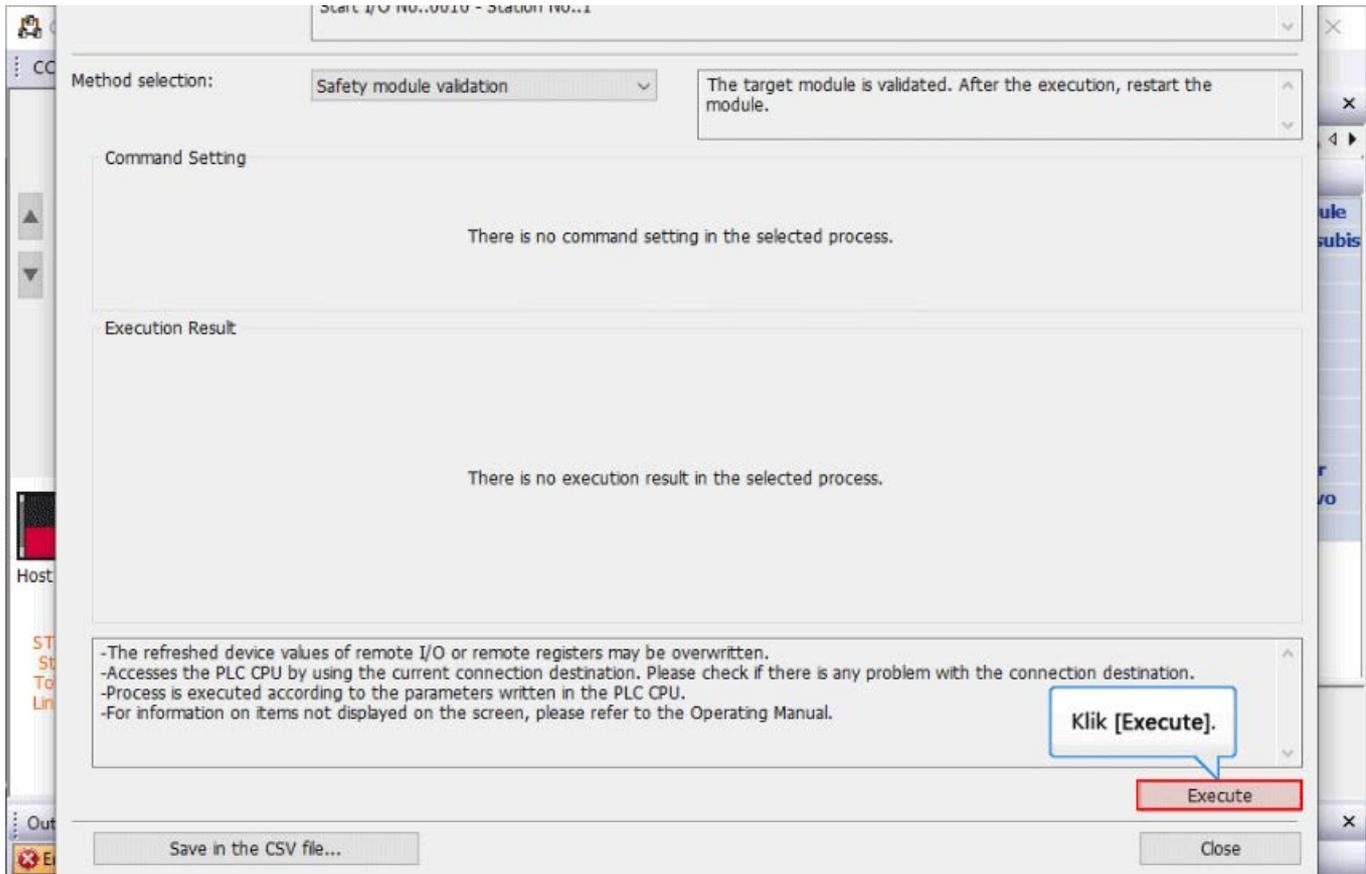
Aktifkan pemrosesan pada safety module.



2.6.2

Mengaktifkan modul keselamatan

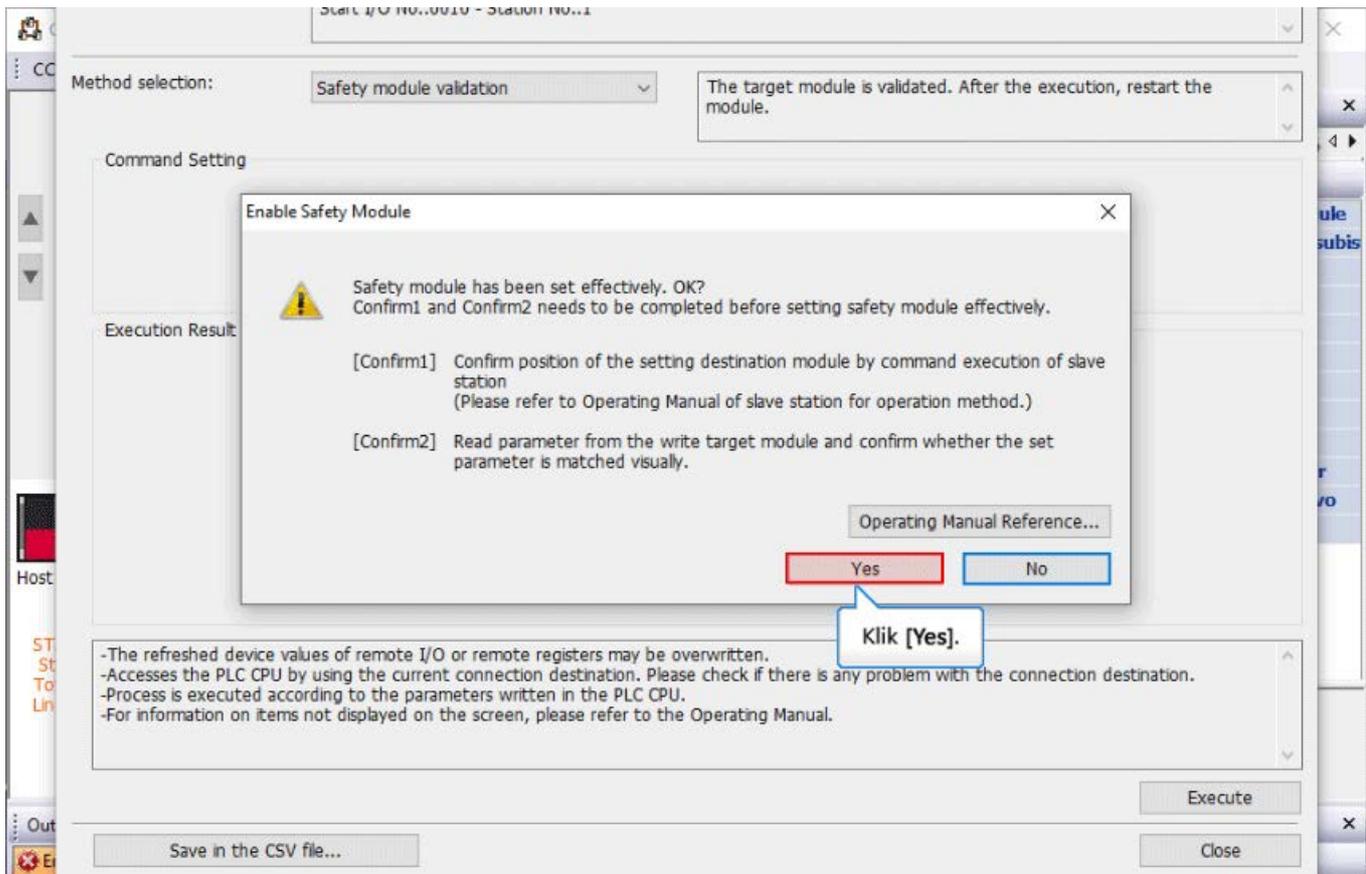
Aktifkan pemrosesan pada safety module.



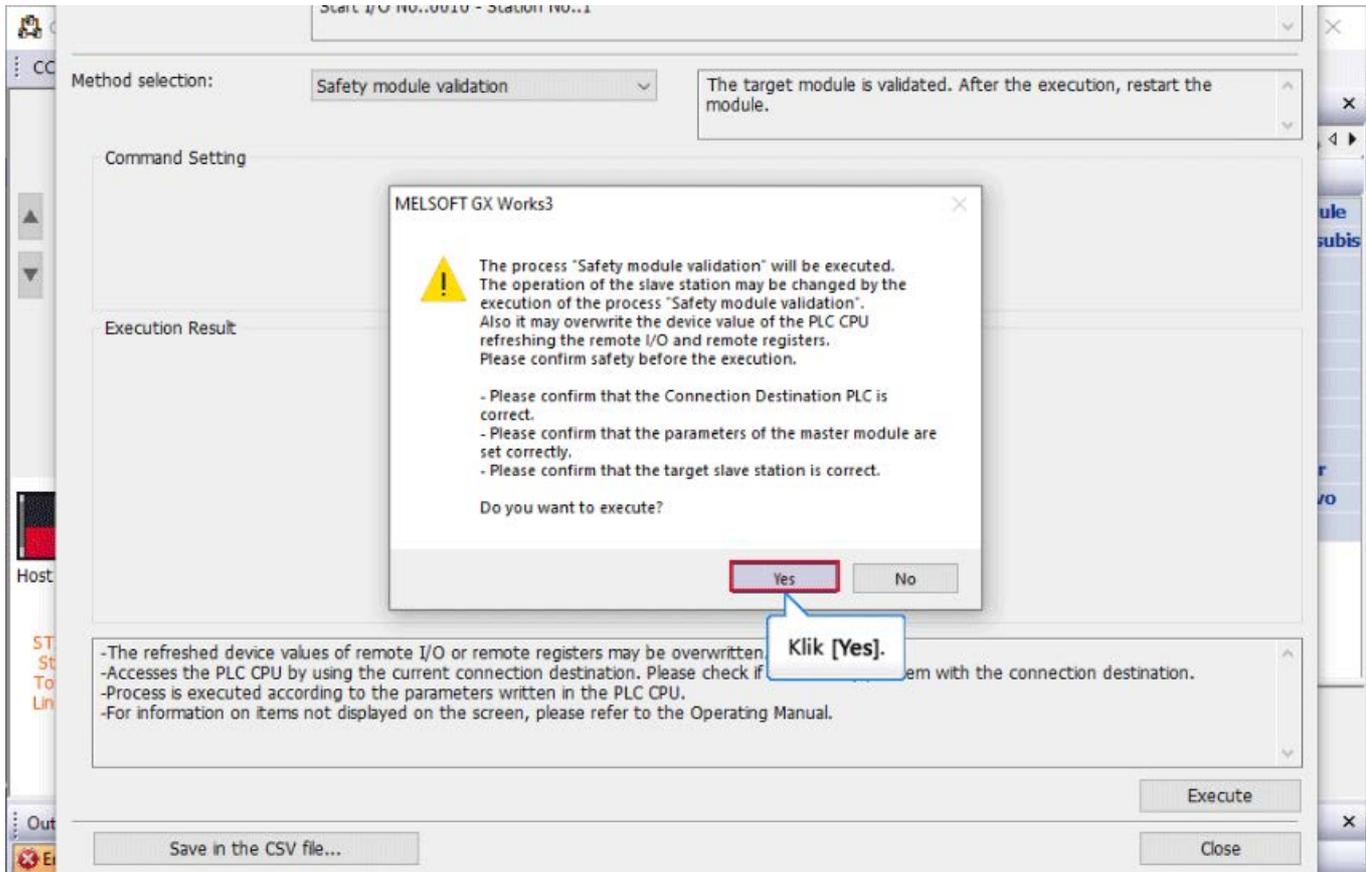
2.6.2

Mengaktifkan modul keselamatan

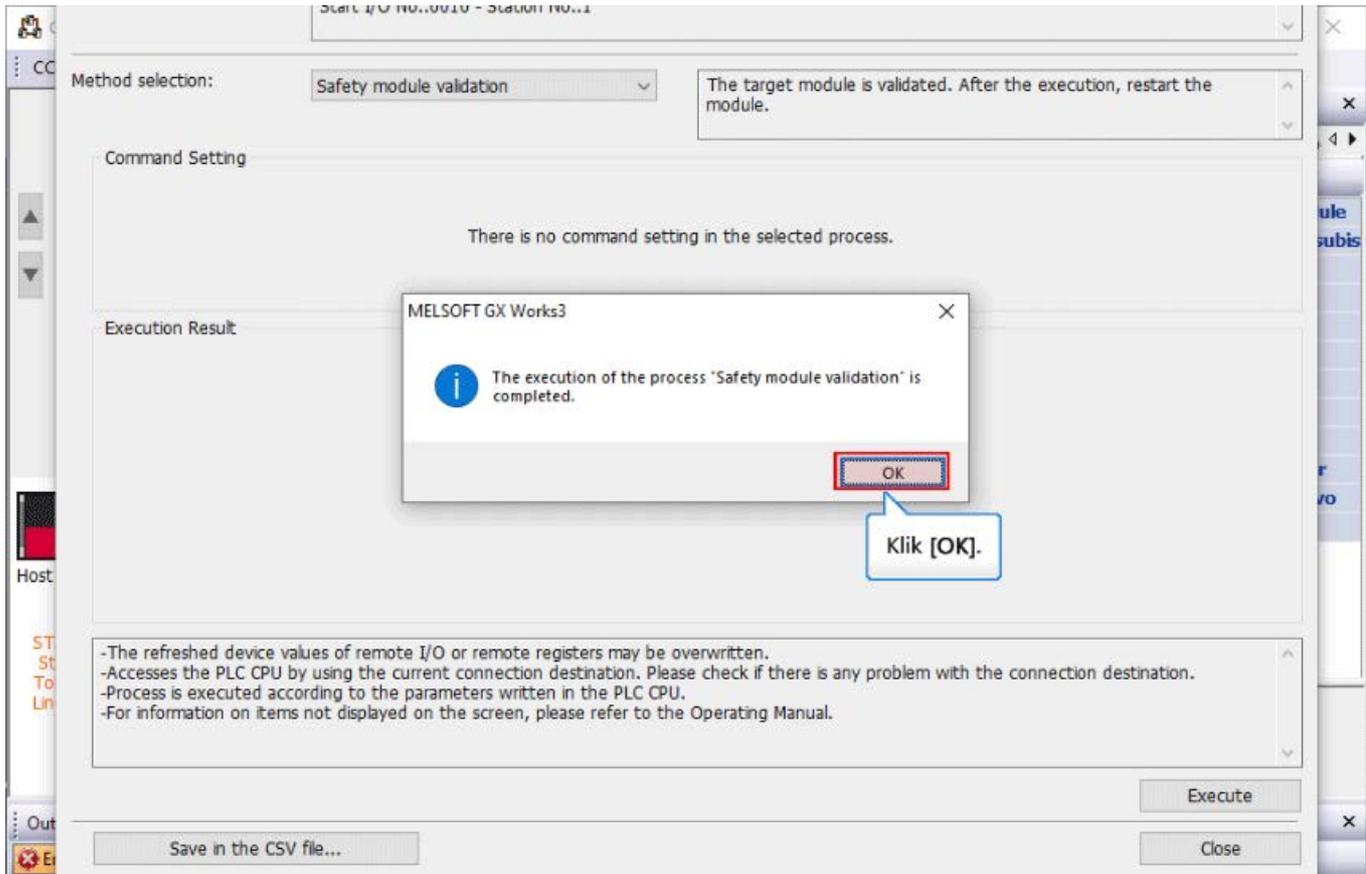
Aktifkan pemrosesan pada safety module.



Aktifkan pemrosesan pada safety module.



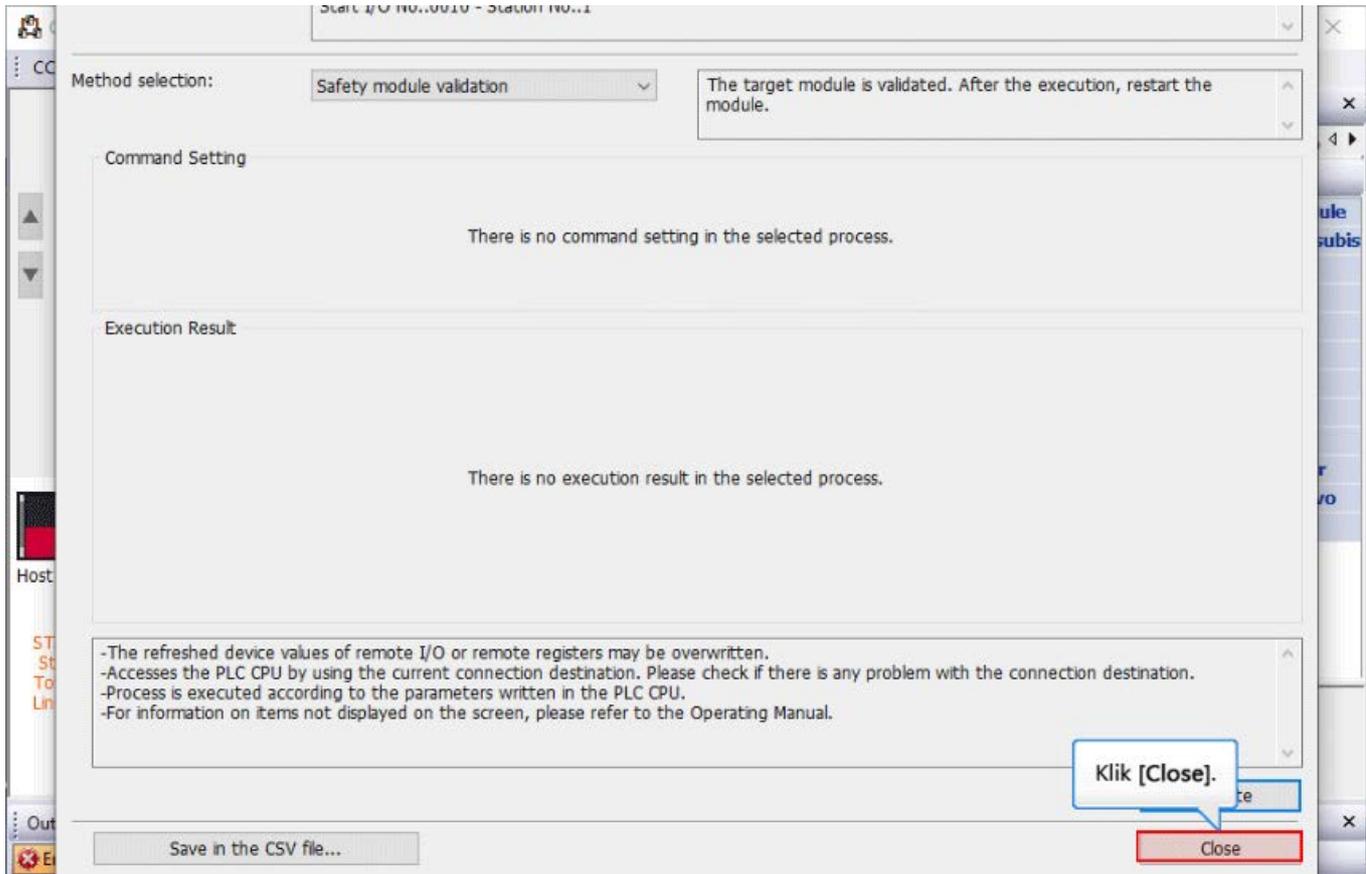
Aktifkan pemrosesan pada safety module.



2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.



2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot shows the 'CC-Link IE TSN Configuration' software interface. The main window displays a table of station configurations and a network diagram.

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Point
0	Host Station	0	Master Station				
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4

The network diagram shows a Host Station (STA#0) connected to a Remote Station (STA#1) labeled 'NZ2GNSS2-16DTE'. A callout box points to the 'Close with Reflecting the Setting' button in the menu bar, with the text 'Klik [Close with Reflecting the Setting].'. The right sidebar shows a list of modules, including 'General CC-Link IE TSN Module' and 'CC-Link IE TSN Module (Mitsubishi)'. The bottom status bar shows 'Error:0' and 'Warning:0'.

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

The screenshot shows the MELSOFT GX Works3 interface with a warning dialog box overlaid on the 'Setting Item' configuration window. The dialog box contains the following text:

<PERINGATAN>

Jika pengaturan parameter safety remote I/O diubah, pengaturan tidak akan diterapkan ke mesin sebenarnya hanya dengan operasi ini.

Pengaturan diterapkan dengan benar ke mesin yang sebenarnya langsung setelah menulis parameter ke safety CPU dengan "Writing to the safety CPU" dan menyetel ulang safety CPU dan safety remote I/O.

Buttons: Berikutnya

The background window shows the 'Setting Item' configuration for 'Network Configuration Settings'. The 'Setting' column lists various parameters with values:

Item	Setting
<Detailed Setting>	<Detailed Setting>
<Detailed Setting>	<Detailed Setting>
Line/Star	Line/Star
Not Set	Not Set
(units of 1us)	1000.00 us
(us)	1000.00 us
	20.00 us
	500.00 us

At the bottom of the dialog, there is an 'Explanation' section:

Explanation
Set the number of device points and assignments of slave station to the master station.

Buttons: Check, Restore the Default Settings, Apply

2.6.2

Mengaktifkan modul keselamatan

Aktifkan pemrosesan pada safety module.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [0010:RJ71GN11-T2 Module Parameter]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation Module Configuration 0010:RJ71GN11-T2 Module Para...

Setting Item List

Input the Setting Item to Search

- Required Settings
- Basic Settings
 - Network Configuration
 - Refresh Setting
 - Network Topology
 - Communication Period
 - Connection Device Info
 - Slave Station Setting
 - Safety Communication
- Application Settings

Setting Item

Item	Setting
Network Configuration Settings	<Detailed Setting>
Network Configuration Settings	<Detailed Setting>
Refresh Settings	<Detailed Setting>
Refresh Settings	<Detailed Setting>
Network Topology	Line/Star
Network Topology	
Communication Period Setting	
Basic Period Setting	
Setting in Units of 1us	Not Set
Communication Period Interval Setting (Do not Set it in Units of 1us)	1000.00 us
Communication Period Interval Setting (Set it in Units of 1us)	1000.00 us
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us

Explanation

Set the number of device points and assignments of slave station to the master station.

Check

Mengaktifkan modul keamanan sekarang telah selesai.
Klik > untuk melanjutkan ke halaman berikutnya.

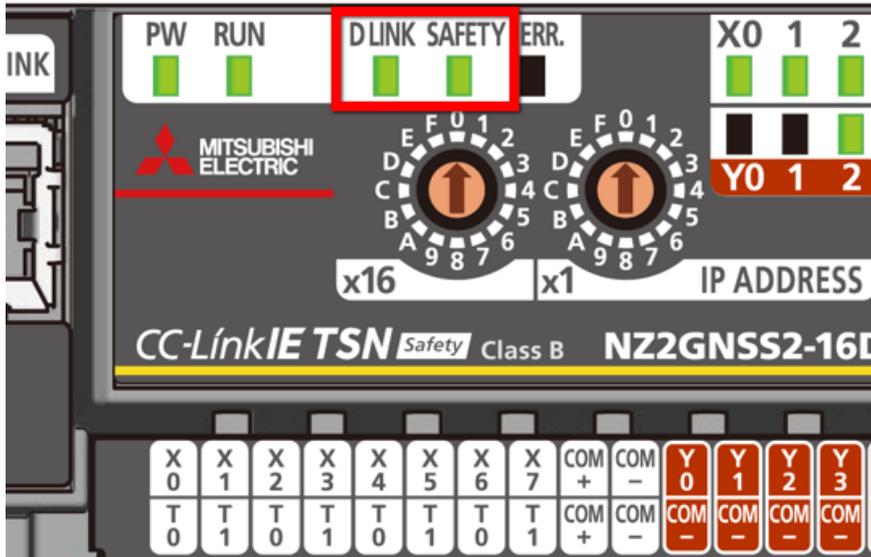
Item List Find Result

Connection Des... Navigation

Output Progress

safety R120SF Host

Setelah pengaktifan pengaturan keselamatan selesai, setel ulang safety CPU dan safety remote I/O dan periksa apakah lampu LED D LINK dan LED SAFETY safety remote I/O menyala.



Dalam bab ini, Anda telah mempelajari:

- Mengatur sakelar pengaturan alamat IP
- Membuat proyek
- Definisi konfigurasi modul
- Pengaturan komunikasi keselamatan
- Mengaktifkan pengaturan keselamatan
- Memeriksa LED safety remote I/O

Poin-poin penting

Mengatur sakelar pengaturan alamat IP	<ul style="list-style-type: none"> • Gunakan sakelar pengaturan alamat IP di bagian depan safety remote I/O untuk mengatur oktet keempat alamat IP.
Membuat proyek	<ul style="list-style-type: none"> • Gunakan MELSOFT GX Works3 untuk membuat proyek dan program sekuens. • Saat menggunakan safety CPU/safety remote I/O MELSEC seri iQ-R, diperlukan MELSOFT GX Works3 is versi 1.065T atau lebih baru. • Saat memulai safety CPU untuk pertama kali setelah pembelian, disarankan untuk memulai semua informasi di PLC. • Untuk menulis proyek ke mesin sebenarnya, akan diminta menuliskan informasi pengguna.
Definisi konfigurasi modul	<ul style="list-style-type: none"> • Diagram konfigurasi modul dibuat dengan memilih modul yang diperlukan dari jendela Element Selection, lalu menyeret dan melepaskannya pada konfigurasi modul. • Ketika safety remote I/O diatur dalam konfigurasi jaringan, profil untuk safety remote I/O harus sudah didaftarkan.
Pengaturan komunikasi keselamatan	<ul style="list-style-type: none"> • Pengaturan komunikasi keselamatan diperlukan untuk komunikasi keselamatan.
Mengaktifkan pengaturan keselamatan	<ul style="list-style-type: none"> • Masuk ke PLC diperlukan untuk menulis data ke PLC. • Pengaturan keselamatan harus diaktifkan.
Memeriksa LED safety remote I/O	<ul style="list-style-type: none"> • Setelah pengaktifan pengaturan keselamatan selesai, setel ulang safety CPU dan safety remote I/O dan periksa apakah lampu LED D LINK dan LED SAFETY safety remote I/O menyala.

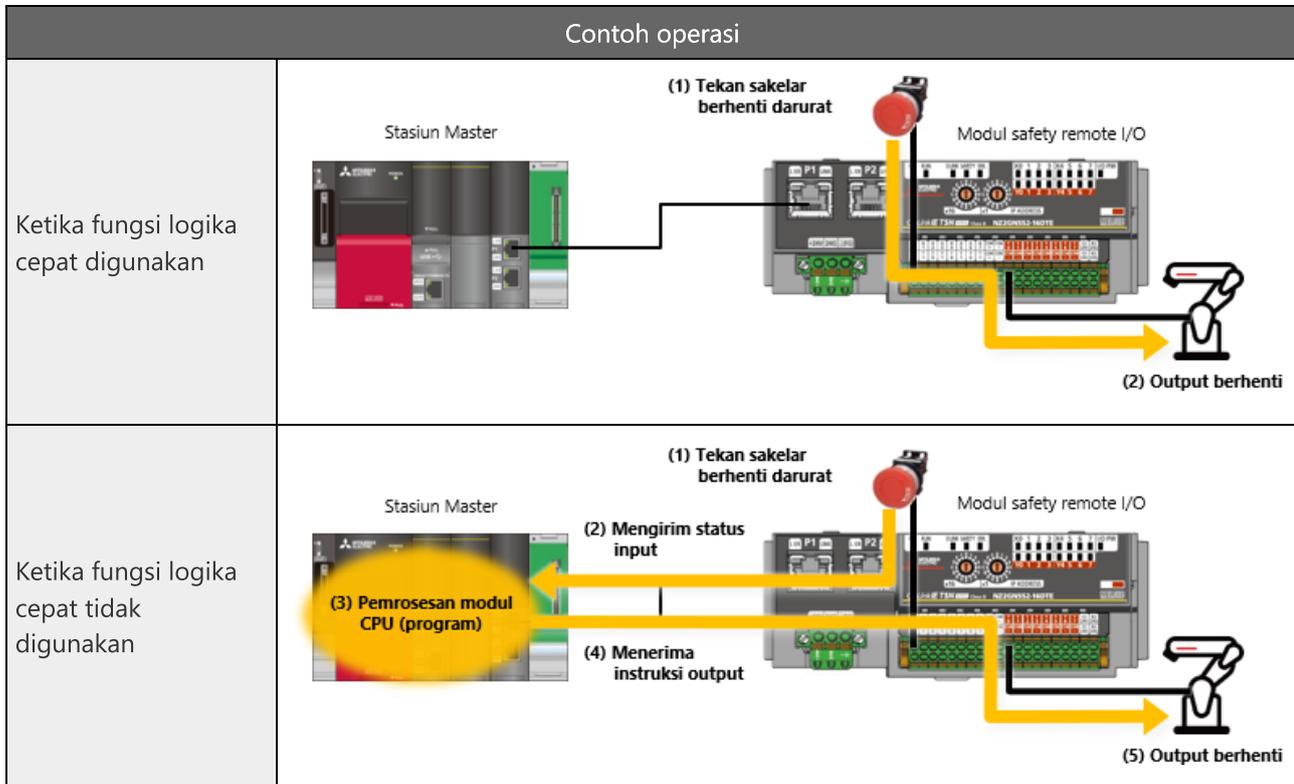
Bab ini menjelaskan fungsi logika cepat.

- 3.1 Ikhtisar Fungsi Logika Cepat
- 3.2 Pola Fungsi Logika Cepat
- 3.3 Pemeriksaan Operasi Fungsi Logika Cepat
- 3.4 Ringkasan Bab Ini

Fungsi logika cepat melakukan kontrol output sesuai dengan status input di dalam modul safety remote I/O tanpa melalui stasiun master.

Karena status output dapat diubah tanpa pemrosesan modul CPU seperti program, kontrol output berkecepatan tinggi dimungkinkan.

Kontrol diaktifkan hanya dengan menyetel pola logika tanpa membuat program ladder.



Untuk menggunakan fungsi logika cepat, atur pola logika yang diinginkan.

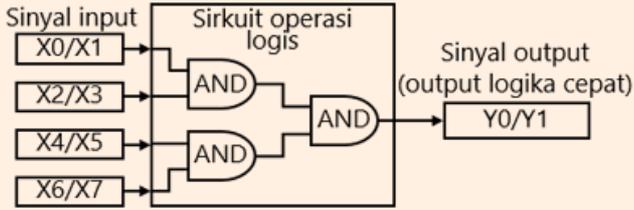
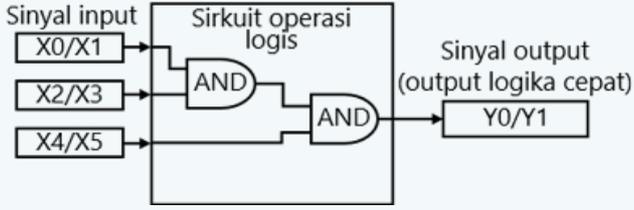
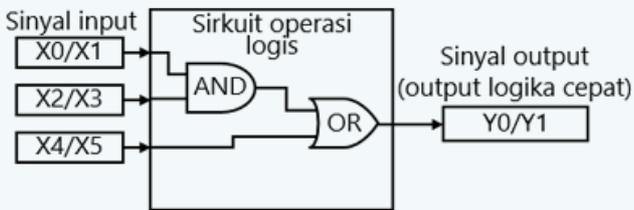
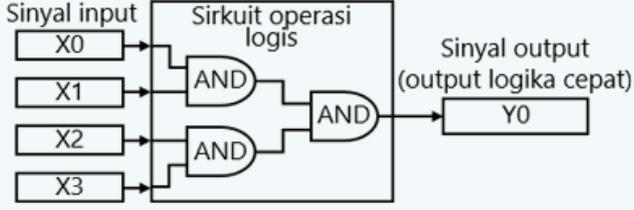
Pengaturan pola logika cepat dapat dikonfigurasi dengan pengaturan parameter stasiun turunan dalam pengaturan konfigurasi jaringan.

Ada empat jenis pola logika cepat.

* Pada Pola 2 hingga Pola 4, sinyal setel ulang eksternal dan sinyal mulai dapat diatur.

Dalam hal ini, sinyal setel ulang ditetapkan ke X7 dan sinyal mulai ditetapkan ke X6.

Tetapkan "Pola 1" untuk kali ini.

Pengaturan pola logika cepat	Rangkaian operasi logis dari logika cepat
Pola 1 Empat input pengkabelan ganda keselamatan (tanpa sinyal setel ulang)	
Pola 2 Tiga input pengkabelan ganda keselamatan (dengan sinyal setel ulang)	
Pola 3 Tiga input pengkabelan ganda keselamatan (dengan sinyal setel ulang)	
Pola 4 Pengkabelan tunggal keselamatan (dengan sinyal setel ulang)	

<Caution>

Jangan gunakan Pola 4 dalam sistem keselamatan.

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

The screenshot displays the MELSOFT GX Works3 software interface. The main window shows a logic pattern configuration table with columns numbered 1 to 12. The first row is labeled 'Write' and contains the value '(0)' in column 1. A tooltip is visible over the 'Local Label Set...' tab, indicating that the user should click twice on the [R71GN11-T2] module.

	1	2	3	4	5	6	7	8	9	10	11	12
Write	(0)											(END)

Klik dua kali [R71GN11-T2].

Navigation tree on the left includes: Scan, MAIN, ProgPou, Local Label, ProgramBody, Fixed Scan, Event, Standby, No Execution Type, Unregistered Program, FB/FUN, Label, Device, Parameter, System Parameter, R120SF, Modu, 0000:SFM, 0010:R71GN11-T2, Remote Password.

Bottom status bar: safety | R120SF | Host | 0/2 Step | Overwrite

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

The screenshot displays the MELSOFT GX Works3 interface for configuring a module parameter. The main window is titled "0010:RJ71GN11-T2 Module Parameter". The left sidebar shows a navigation tree with "Basic Settings" selected. A callout box points to this selection with the text "Klik [Basic Settings]".

The "Setting Item List" panel shows a tree view with the following structure:

- Required Settings
- Basic Settings** (selected)
- Application Settings

The "Setting Item" panel displays a table of parameters and their values:

Item	Setting
Station Type	
Station Type	Master Station
Network No.	
Network No.	1
Parameter Setting Method	
Setting Method of Basic/Application Settings	Parameter Editor
Station No./IP Address Setting	
Station No./IP Address Setting Method	Parameter Editor
Station No.	0
IP Address	192 . 168 . 3 . 253
Subnet Mask	
Default Gateway	

Below the table, there is an "Explanation" section with the text "Set the station type." and buttons for "Check", "Restore the Default Settings", and "Apply".

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

The screenshot displays the MELSOFT GX Works3 interface for configuring a module parameter. The main window is titled 'Setting Item List' and 'Setting Item'. The left sidebar shows a project tree with '0010:RJ71GN11-T2' selected. The main area shows a list of settings for 'Network Configuration Settings'. A callout box indicates that the '<Detailed Setting>' button should be clicked twice in the 'Network Configuration Settings' section.

Item	Setting
Network Configuration Settings	<Detailed Setting>
Network Configuration Settings	
Refresh Settings	
Refresh Settings	
Network Topology	
Network Topology	
Communication Period Setting	
Basic Period Setting	
Setting in Units of 1us	Not Set
Communication Period Interval Setting (Do not Set it in Units of 1us)	1000.00 us
Communication Period Interval Setting (Set it in Units of 1us)	1000.00 us
System Reservation Time	20.00 us
Cyclic Transmission Time	500.00 us
Transient Transmission Time	480.00 us

Explanation
Set the network configuration.

Buttons: Check, Restore the Default Settings, Apply

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

CC-Link IE TSN Configuration (Start I/O: 0010)

CC-Link IE TSN Configuration Edit View Close with Discarding the Setting Close with Reflecting the Setting

Connected/Disconnected Module Detection Detailed Display

Mode Setting: Online (Unicast Mode) Assignment Method:

Cyclic Transmission Time (Min.): 17.00 us Communication Period Interval (Min.): 125.00

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Point
0	Host Station	0	Master Station				
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4

Jendela CC-Link IE TSN Configuration muncul.

Host Station

STA#0 Master Station
Total STA#:1
Line/Star

NZ2GNSS2-16DTE

Module List

CC-Link IE TSN Selection Find Mo

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
 - Master/Local Module
 - Motion Module
 - GOT2000 Series
 - DC Input
 - Transistor Output
 - Analog Input
 - Analog Output
 - General purpose Inverter
 - General-Purpose AC Servo
 - I/O Combined

Output

Error Warning

3.2.1 Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. At the top, the title bar reads 'CC-Link IE TSN Configuration (Start I/O: 0010)'. Below the title bar, there are menu options: 'CC-Link IE TSN Configuration', 'Edit', 'View', 'Close with Discarding the Setting', and 'Close with Reflecting the Setting'. The main configuration area includes tabs for 'Connected/Disconnected Module Detection' and 'Detailed Display'. The 'Mode Setting' is set to 'Online (Unicast Mode)' and the 'Assignment Method' is set to 'Assignment Method:'. The 'Cyclic Transmission Time (Min.)' is 17.00 us and the 'Communication Period Interval (Min.)' is 125.00 us.

No.	Model Name	STA#	Station Type	RX Setting Points	RY Setting Points	RWr Setting Points	RWw Point
0	Host Station	0	Master Station				
1	NZ2GNSS2-16DTE	1	Remote Station	16	16	4	4

Below the table is a network diagram showing a 'Host Station' (STA#0) connected to a 'Remote Station' (STA#1, model NZ2GNSS2-16DTE). A callout box with the text 'Klik ►' points to the connection line. The diagram also shows a legend for 'Host Station' and 'STA#0 Master Station Total STA#:1 Line/Star'.

On the right side, there is a 'Module List' panel with a search bar 'Find Mo'. The list includes:

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
 - Master/Local Module
 - Motion Module
 - GOT2000 Series
 - DC Input
 - Transistor Output
 - Analog Input
 - Analog Output
 - General purpose Inverter
 - General-Purpose AC Servo
 - I/O Combined

At the bottom, there is an 'Output' panel with 'Error' and 'Warning' indicators.

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

CC-Link IE TSN Configuration (Start I/O: 0010)

CC-Link IE TSN Configuration Edit View Close with Discarding the Setting Close with Reflecting the Setting

Connected/Disconnected Module Detection Detailed Display

Mode Setting: Online (Unicast Mode) Assignment Method:

Cyclic Transmission Time (Min.): 17.00 us Communication Period Interval (Min.): 125.00

No.	Model Name	RY Setting	RWr Setting	RWw Setting	Parameter Automatic Setting
		Points	Points	Points	
0	Host Station				
1	NZ2GNSS2-16DTE	16	4	4	<Detail Setting>

Klik dua kali <Detailed Setting> di [Parameter Automatic Setting].

Module List

CC-Link IE TSN Selection Find Mo

- General CC-Link IE TSN Module
- CC-Link IE TSN Module (Mitsubis
 - Master/Local Module
 - Motion Module
 - 603000 Series
 - Output
 - Analog Input
 - Analog Output
 - General purpose Inverter
 - General-Purpose AC Servo
 - I/O Combined

Output

Error Warning

Konfigurasi pengaturan pola logika.

Parameter of Slave Station

Target Module Information: NZ2GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting Set the parameters that support parameter auto-setting.

Parameter Information

Select All Cancel All Selections Clear All "Read Value" Clear All "Write Value/Setting Value" Copy "Initial Value" to "Write Value/Setting Value" Copy "Read Value" to "Write Value/Setting Value"

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting ...	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval m...							4 to 1000	Set the t
I/O LED indication setti...								Set the l
Safety authentication co...							0x00000000 to 0...	Set the :
<input checked="" type="checkbox"/> Link speed setting								Sets the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy a...								The oper
<input checked="" type="checkbox"/> input dark test pulse OFF t...								Set the t
<input checked="" type="checkbox"/> Number of pulse output for...								Set the r
<input checked="" type="checkbox"/> Fast logic pattern setting								Set the l
<input checked="" type="checkbox"/> Fast logic Interlock mode s...								When the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
- For information on items not displayed on the screen, please refer to the Operating Manual.

Konfigurasi pengaturan pola logika.

Parameter of Slave Station

Target Module Information: NZ2GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting
Set the parameters that support parameter auto-setting.

Parameter Information

Select All Cancel All Selections Clear All "Read Value" Clear All "Write Value/Setting Value"
Copy "Initial Value" to "Write Value/Setting Value" Copy "Read Value" to "Write Value/Setting Value"

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting ...	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms	35	ms	4 to 1000	Set the t
I/O LED indication setting ...	0: Hide abno...				0: Hide abnormal occ...			Set the l
Safety authentication code	0xFFFFFFFF				0xFFFFFFFF		0x00000000 to 0...	Set the :
<input checked="" type="checkbox"/> Link speed setting	0: 1Gbps				0: 1Gbps			Sets the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0: Not used				0: Not used			The oper
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0: 400us				0: 400us			Set the t
<input checked="" type="checkbox"/> Number of pulse output for in...	0: 1 time				0: 1 time			Set the r
<input checked="" type="checkbox"/> Fast logic pattern setting	0: Not used				0: Not used			Set the l
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0: Enable				0: Enable			When the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
- For information on items not displayed on the screen, please refer to the Operating Manual.

Konfigurasi pengaturan pola logika.

Parameter of Slave Station

Target Module Information: NZ2GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting ...	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms	35	ms	4 to 1000	Set the t
I/O LED indication setting ...	0: Hide abno...				0: Hide abnormal occ...			Set the l
Safety authentication code	0xFFFFFFFF				0xFFFFFFFF		0x00000000 to 0...	Set the :
<input checked="" type="checkbox"/> Link speed setting	0: 1Gbps				0: 1Gbps			Sets the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0: Not used				0: Not used			The oper
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0: 400us				0: 400us			Set the t
<input checked="" type="checkbox"/> Number of pulse output for in...	0: 1 time				0: 1 time			Set the i
<input checked="" type="checkbox"/> Fast logic pattern setting	0: Not used				0: Not used			Set the l
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0: Enable				0: Enable			When the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
- For information on items not displayed on the screen, please refer to the Operating Manual.

Konfigurasi pengaturan pola logika.

Parameter of Slave Station

Target Module Information: NZ2GNSS2-16DTE
Start I/O No.:0010 - Station No.:1

Method selection: Parameter auto-setting

Parameter Information

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting ...	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms	35	ms	4 to 1000	Set the t
I/O LED indication setting ...	0: Hide abno...				0: Hide abnormal occ...			Set the l
Safety authentication code	0xFFFFFFFF				0xFFFFFFFF		0x00000000 to 0...	Set the :
<input checked="" type="checkbox"/> Link speed setting	0: 1Gbps				0: 1Gbps			Sets the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0: Not used				0: Not used			The oper
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0: 400us				0: 400us			Set the t
<input checked="" type="checkbox"/> Number of pulse output for in...	0: 1 time				0: 1 time			Set the r
<input checked="" type="checkbox"/> Fast logic pattern setting	0: Not used				0: Not used			Set the l
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0: Enable							When the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
- For information on items not displayed on the screen, please refer to the Operating Manual.

Konfigurasi pengaturan pola logika.

Method selection: **Parameter auto-setting** Set the parameters that support parameter auto-setting.

Parameter Information

Clear All "Read Value" Clear All "Write Value/Setting Value"

Select All Cancel All Selections Copy "Initial Value" to "Write Value/Setting Value" Copy "Read Value" to "Write Value/Setting Value"

Name	Initial Value	Unit	Read Value	Unit	Write Value/Setting ...	Unit	Setting Range	Descript
Station parameter								
<input checked="" type="checkbox"/> Safety setting								
Transmission interval moni...	35	ms		ms		35 ms	4 to 1000	Set the t
I/O LED indication setting ...	0: Hide abno...				0: Hide abnormal occ...			Set the l
Safety authentication code	0xFFFFFFFF				0xFFFFFFFF		0x00000000 to 0...	Set the :
<input checked="" type="checkbox"/> Link speed setting	0: 1Gbps				0: 1Gbps			Sets the
Module parameter								
<input checked="" type="checkbox"/> Double input discrepancy aut...	0: Not used				0: Not used			The oper
<input checked="" type="checkbox"/> input dark test pulse OFF tim...	0: 400us				0: 400us			Set the v
<input checked="" type="checkbox"/> Number of pulse output for in...	0: 1 time				0: 1 time			Set the r
<input checked="" type="checkbox"/> Fast logic pattern setting	0: Not used				1: Pattern 1			Set the l
<input checked="" type="checkbox"/> Fast logic Interlock mode set...	0: Enable				0: Enable			When the

Process Option

There is no option in the selected process.

The value set in write value/setting value is set to slave station automatically by Slave Station Parameter Automatic Setting function.
- For information on items not displayed on the screen, please refer to the Operating Manual.

Enable safety module when succeed to write parameter

Output

Import... Export... Close with Discarding the Setting **Close with Reflecting the Setting**

Klik [Close with Reflecting the Setting].

3.2.1

Pengaturan pola logika cepat

Konfigurasi pengaturan pola logika.

The screenshot displays the 'CC-Link IE TSN Configuration' software interface. The main window shows configuration parameters for the TSN network, including Mode Setting (Online (Unicast Mode)), Assignment Method, Cyclic Transmission Time (17.00 us), and Communication Period Interval (125.00). A table lists the modules connected to the network:

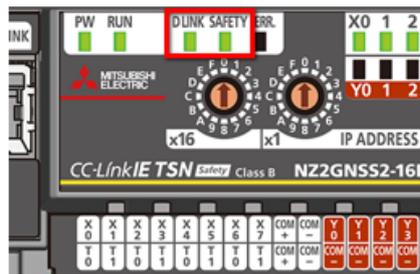
No.	Model Name	RWr Setting Points	RWw Setting Points	Parameter Automatic Setting	PDO Mapping Setting
0	Host Station				
1	NZ2GNSS2-16DTE	4	4	<input checked="" type="checkbox"/>	<Detail Setting>

Below the table, a network diagram shows a Host Station (STA#0) connected to a slave module (STA#1) labeled 'NZ2GNSS2-16DTE'. The slave module is highlighted with a green box. The status bar at the bottom indicates 'Error:0' and 'Warning:0'. A callout box contains the text: 'Pengaturan pola logika cepat sekarang telah selesai. Klik > untuk melanjutkan ke halaman berikutnya.'

Setelah selesai menulis parameter yang mengatur pola logika cepat, atur modul CPU ke RUN dan tetapkan jaringan. Ketika jaringan dibuat dengan benar, LED D LINK dari modul induk/lokal, dan LED D LINK dan LED SAFETY dari modul safety remote I/O akan menyala.

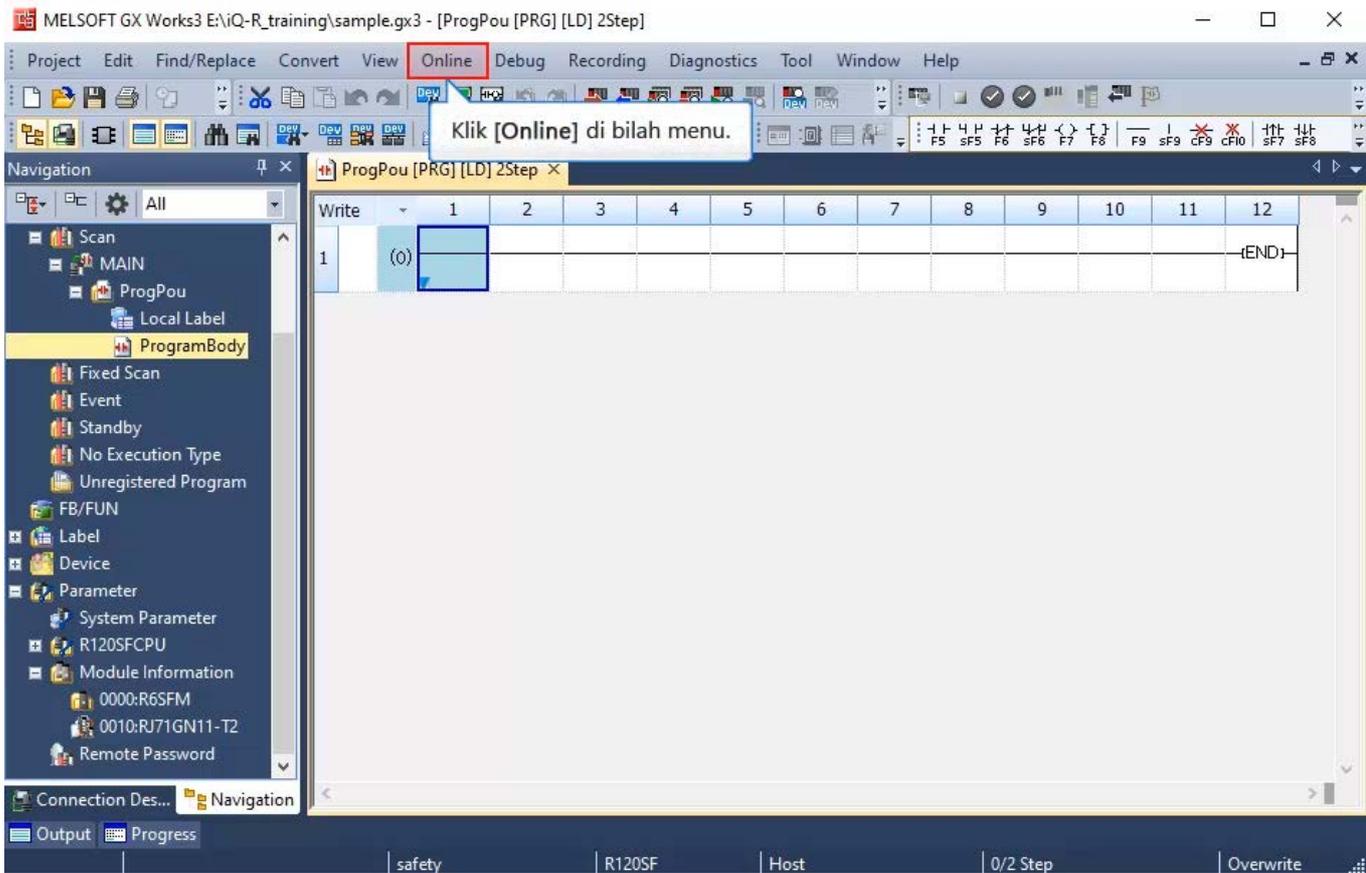


Modul master/lokal

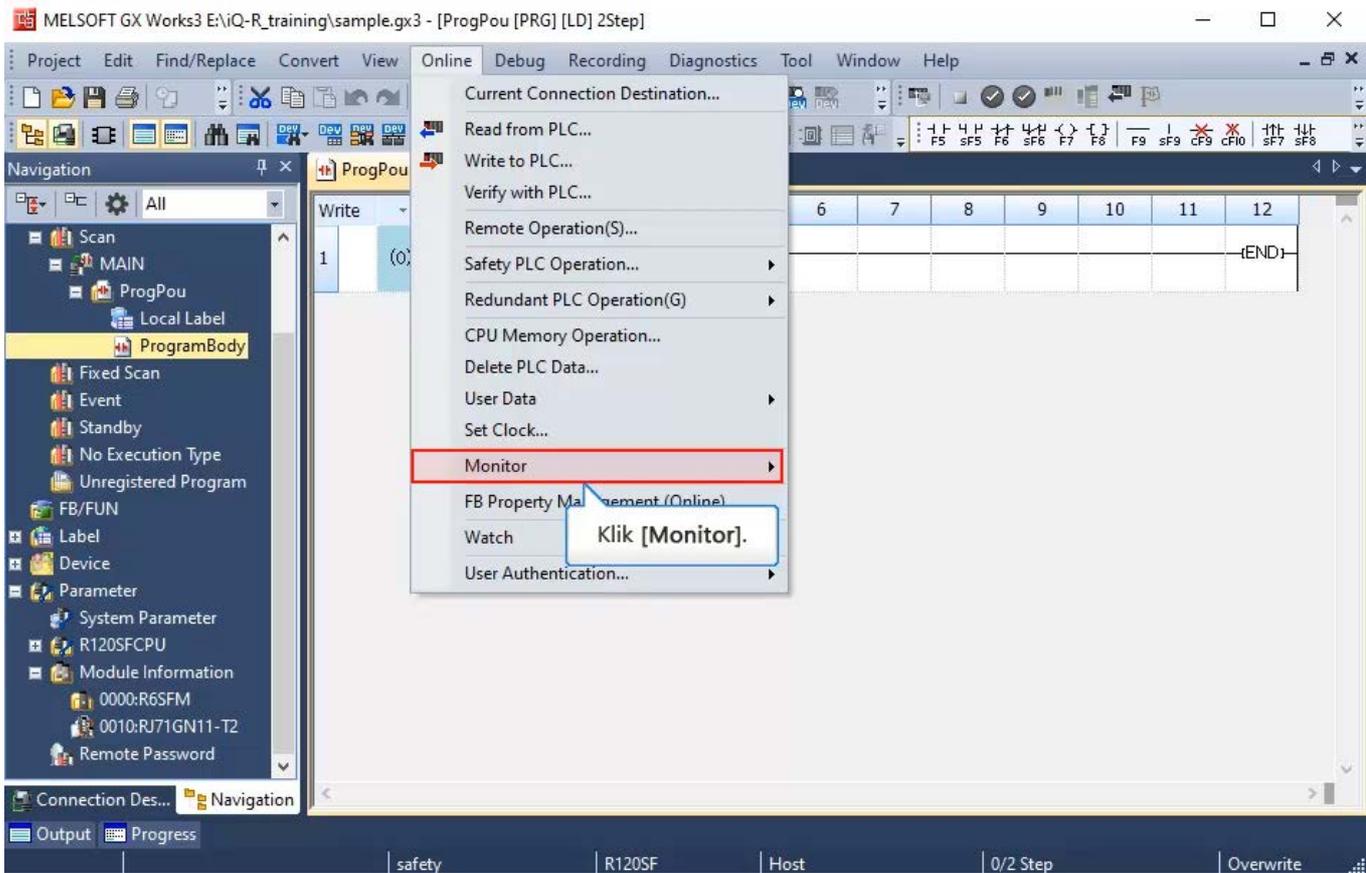


Modul safety remote I/O

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.



Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.



Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

The screenshot displays the MELSOFT GX Works3 software interface. The 'Online' menu is open, and the 'Monitor' option is selected, which has opened a sub-menu. In this sub-menu, the 'Device/Buffer Memory Batch Monitor' option is highlighted with a red box. A callout box with a blue border points to this option, containing the text: 'Klik [Device/Buffer Memory Batch Monitor].'

The software window title is 'MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [ProgPou [PRG] [LD] 2Step]'. The 'Navigation' pane on the left shows a project tree with 'ProgramBody' selected. The main workspace shows a ladder logic diagram with a network containing an 'END' instruction. The bottom status bar shows 'safety | R120SF | H | SFC Auto-scroll'.

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

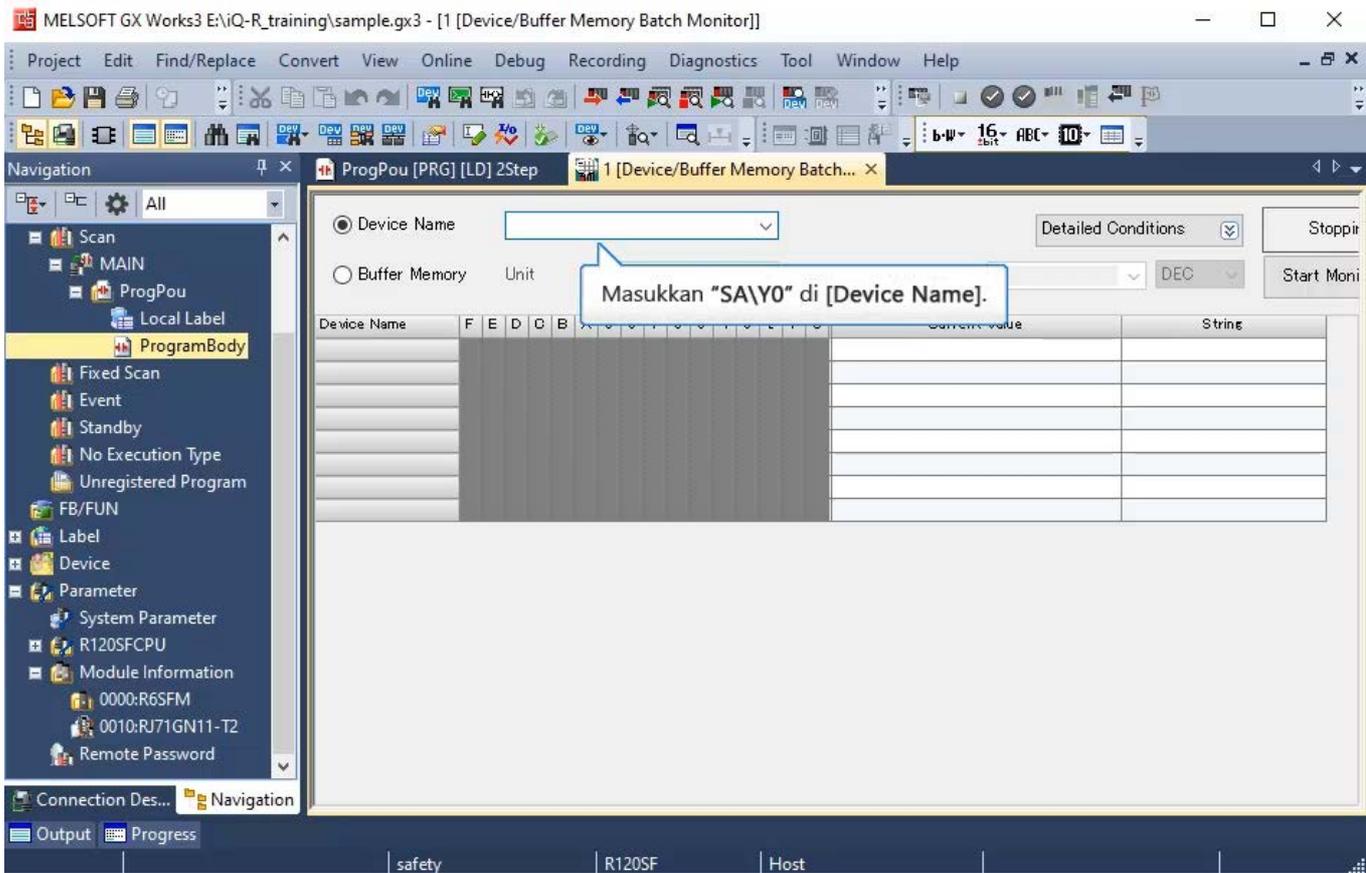
The screenshot displays the MELSOFT GX Works3 software interface. The main window is titled "MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor]]". The interface includes a menu bar (Project, Edit, Find/Replace, Convert, View, Online, Debug, Recording, Diagnostics, Tool, Window, Help) and a toolbar. A navigation tree on the left shows the project structure, including "MAIN", "ProgPou", "Local Label", "ProgramBody", "Fixed Scan", "Event", "Standby", "No Execution Type", "Unregistered Program", "FB/FUN", "Label", "Device", "Parameter", "System Parameter", "R120SF CPU", "Module Information", "0000:R6SFM", "0010:RJ71GN11-T2", and "Remote Password".

The main control area features a "Device Name" dropdown menu (highlighted with a red box and a callout bubble saying "Klik [Device Name]"), a "Buffer Memory" radio button, a "Unit" field, an "Address" field, and a "DEC" dropdown menu. There are also "Detailed Conditions" and "Start Moni" buttons. Below this is a table with columns for "Device Name", "F", "E", "D", "G", "B", "Current Value", and "String".

Device Name	F	E	D	G	B	Current Value	String

The bottom status bar shows "safety", "R120SF", and "Host".

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.



The screenshot displays the MELSOFT GX Works3 software interface. The main window is titled "MELSOFT GX Works3 E:\IQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor]]". The interface includes a menu bar (Project, Edit, Find/Replace, Convert, View, Online, Debug, Recording, Diagnostics, Tool, Window, Help) and a toolbar. The left sidebar shows a navigation tree with folders like Scan, MAIN, ProgPou, Local Label, ProgramBody, Fixed Scan, Event, Standby, No Execution Type, Unregistered Program, FB/FUN, Label, Device, Parameter, System Parameter, R120SF CPU, Module Information, 0000:R6SFM, 0010:RJ71GN11-T2, and Remote Password. The main area shows the "Device/Buffer Memory Batch Monitor" window. It has a "Device Name" dropdown menu and a "Buffer Memory" section. A callout box with a blue border and white background points to the "Device Name" field, containing the text "Masukkan 'SA\Y0' di [Device Name].". Below the callout is a table with columns "Device Name", "F", "E", "D", "C", "B", "Convert Value", and "String". The table has several rows, but the data is mostly obscured by a greyed-out area. At the bottom of the window, there are tabs for "Connection Des...", "Navigation", "Output", and "Progress". The status bar at the very bottom shows "safety", "R120SF", and "Host".

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\IQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch... x

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String	
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Matikan dan aktifkan safety output enable signal (SA#Y0).

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch...]

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	..
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Matikan dan aktifkan safety output enable signal (SA#Y1).

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch...]

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String	
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	..	
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Matikan dan nyalakan fast logic initial request flag (SA#Y8).

Connection Des... Navigation

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch... x

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String	
SA#Y0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	259	..	
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Nyalakan dan matikan.

Connection Des... Navigation

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch... x

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit Address DEC Stop Moni

Klik [Device Name].

Device Name	F	E	D	O	B	A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Current Value	String		
SA#Y0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	259	..
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Connection Des... Navigation

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch...]

Device Name SA#X0D Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String
SA#X0D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	..
SA#X1D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X2D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X3D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X4D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X5D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X7D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X8D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X9D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0AD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0CD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0DD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0ED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X0FD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X10D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X11D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X12D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#X13D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

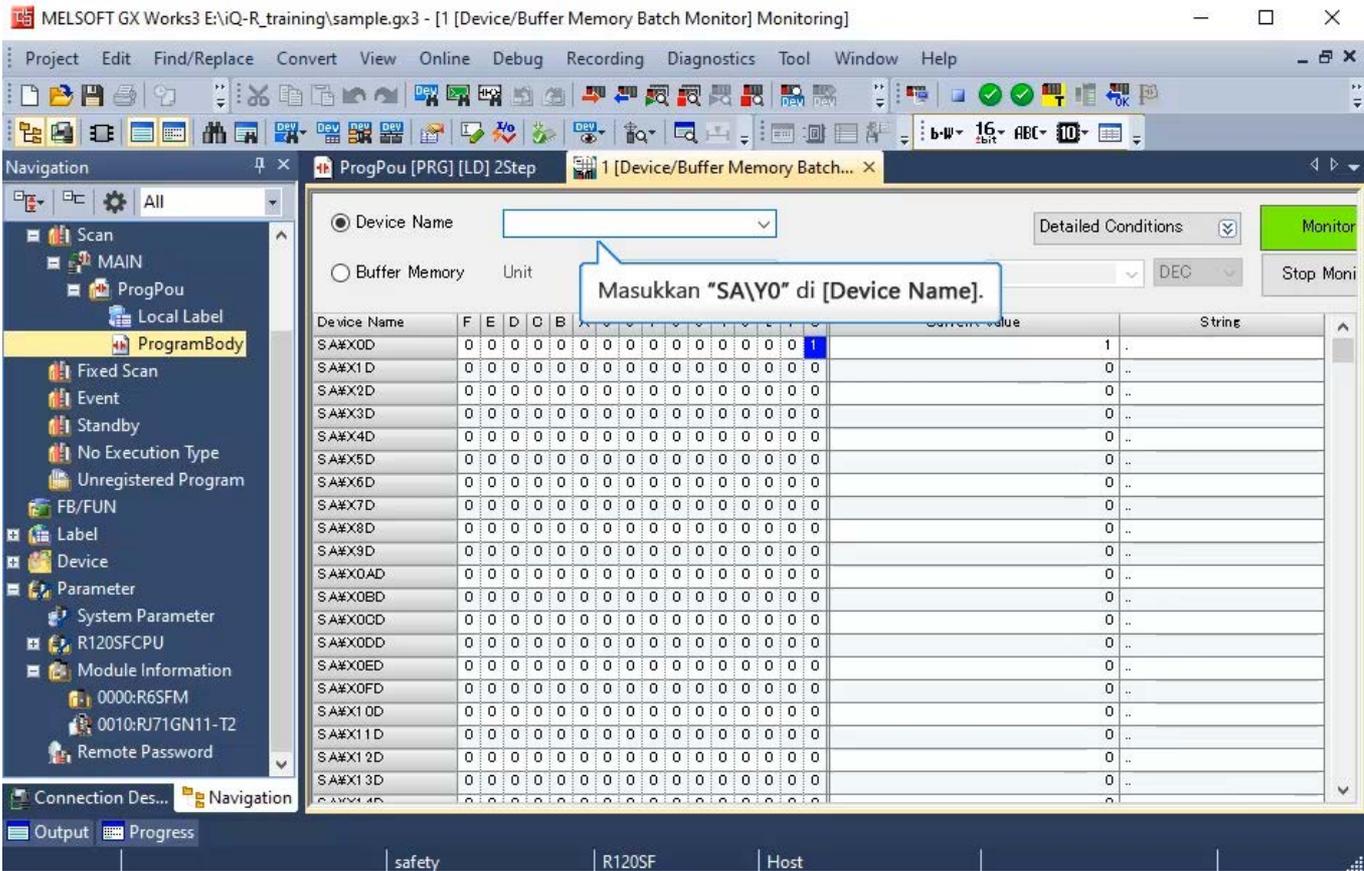
Periksa apakah fast logic initial completion flag (SA#XD) aktif.

Connection Des... Navigation

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.



The screenshot shows the MELSOFT GX Works3 interface. The main window is titled "1 [Device/Buffer Memory Batch Monitor] Monitoring". A callout box with a blue border and white background contains the text "Masukkan 'SA\Y0' di [Device Name].". The main window displays a table with the following columns: Device Name, F, E, D, O, B, and String. The table lists various device names (SA#X0D to SA#X14D) and their corresponding bit values (0 or 1). The bit value for SA#X0D is 1, while all other bit values are 0.

Device Name	F	E	D	O	B	String
SA#X0D	0	0	0	0	0	1
SA#X1D	0	0	0	0	0	0
SA#X2D	0	0	0	0	0	0
SA#X3D	0	0	0	0	0	0
SA#X4D	0	0	0	0	0	0
SA#X5D	0	0	0	0	0	0
SA#X6D	0	0	0	0	0	0
SA#X7D	0	0	0	0	0	0
SA#X8D	0	0	0	0	0	0
SA#X9D	0	0	0	0	0	0
SA#X0AD	0	0	0	0	0	0
SA#X0BD	0	0	0	0	0	0
SA#X0CD	0	0	0	0	0	0
SA#X0DD	0	0	0	0	0	0
SA#X0ED	0	0	0	0	0	0
SA#X0FD	0	0	0	0	0	0
SA#X10D	0	0	0	0	0	0
SA#X11D	0	0	0	0	0	0
SA#X12D	0	0	0	0	0	0
SA#X13D	0	0	0	0	0	0

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch...

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String	
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	..	
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Matikan dan aktifkan bendera mulai logika cepat (SA#Y9).

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch... x

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String	
SA#Y0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	515	..	
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	..

Nyalakan dan matikan.

Connection Des... Navigation

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch...

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	..
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0C0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Pemeriksaan operasi fungsi logika cepat sekarang telah selesai.

Output Progress

safety R120SF Host

Saat operasi pada logika cepat dimulai, hidupkan/matikan beberapa sinyal output safety remote.

MELSOFT GX Works3 E:\iQ-R_training\sample.gx3 - [1 [Device/Buffer Memory Batch Monitor] Monitoring]

Project Edit Find/Replace Convert View Online Debug Recording Diagnostics Tool Window Help

Navigation ProgPou [PRG] [LD] 2Step 1 [Device/Buffer Memory Batch... x

Device Name SA#Y0 Detailed Conditions Monitor

Buffer Memory Unit (HEX) Address DEC Stop Moni

Device Name	F	E	D	C	B	A	9	8	7	6	5	4	3	2	1	0	Current Value	String
SA#Y0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	..
SA#Y10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0A0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0B0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0D0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0E0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y0F0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SA#Y130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

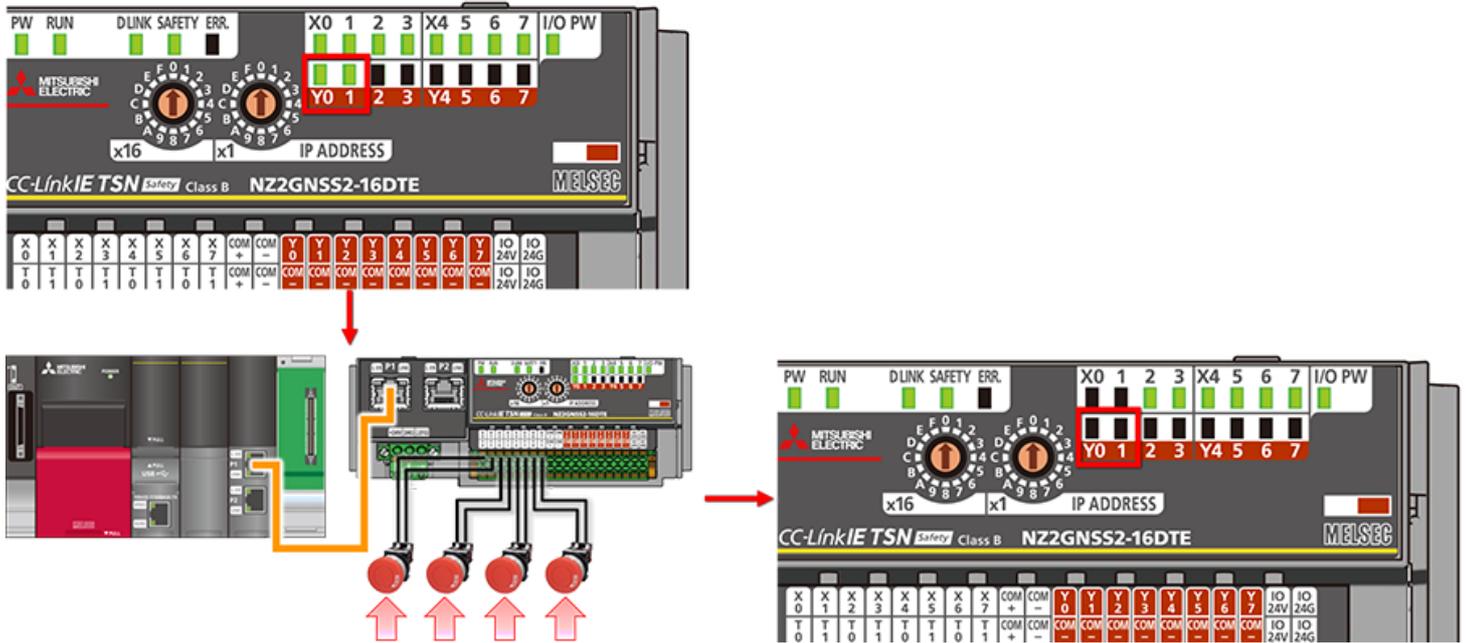
Pemeriksaan operasi fungsi logika cepat sekarang telah selesai.

Pemeriksaan operasi fungsi logika cepat sekarang telah selesai.
Klik > untuk melanjutkan ke halaman berikutnya.

Output Progress

safety R120SF Host

Dengan menggunakan fungsi logika cepat, periksa apakah LED Y0 dan Y1 pada modul safety remote I/O menyala. Tekan salah satu sakelar berhenti darurat untuk memeriksa apakah LED Y0 dan Y1 mati.



* Dengan menggunakan fungsi logika cepat, kontrol keluaran dapat disesuaikan dengan pola logika tanpa membuat program.

Dalam bab ini, Anda telah mempelajari:

- Ikhtisar logika cepat
- Pola fungsi logika cepat
- Pemeriksaan operasi fungsi logika cepat

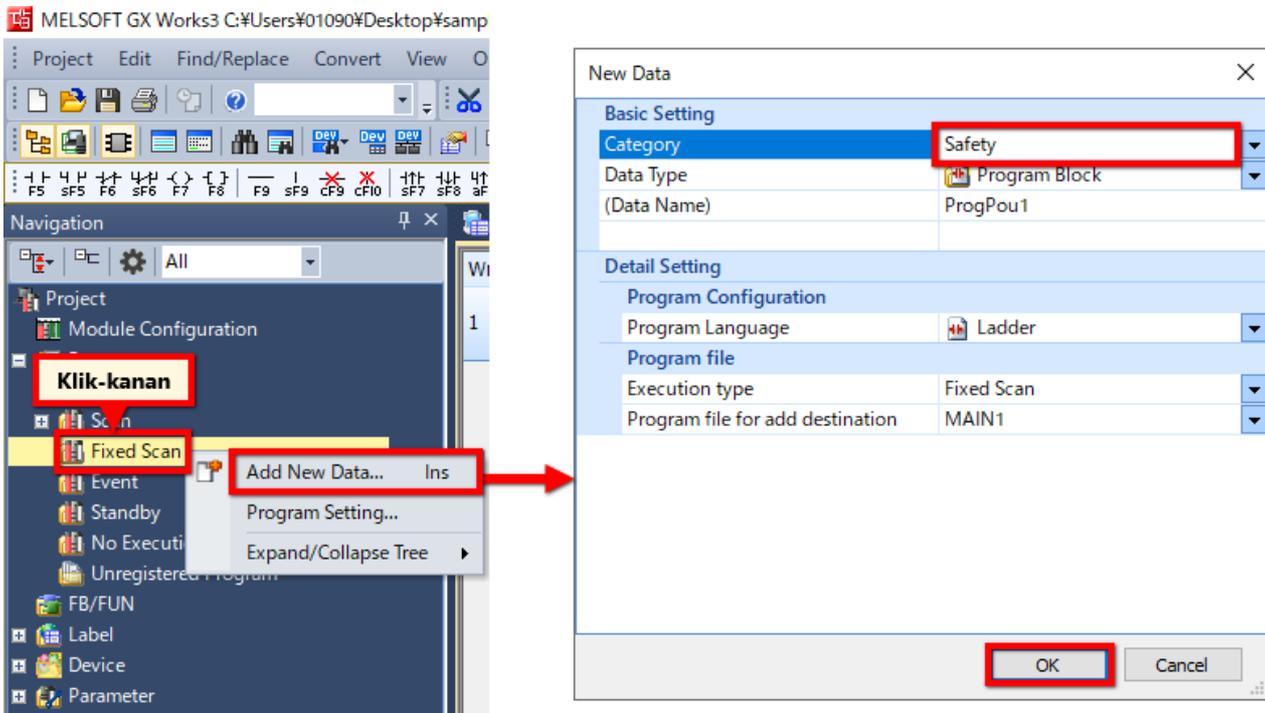
Poin-poin penting

Ikhtisar logika cepat	<ul style="list-style-type: none">• Karena status output dapat diubah tanpa pemrosesan modul CPU seperti program, kontrol output berkecepatan tinggi dimungkinkan.
Pola fungsi logika cepat	<ul style="list-style-type: none">• Ada empat jenis pola logika cepat.• Pengaturan pola logika cepat dikonfigurasi dengan pengaturan parameter stasiun slave dalam pengaturan konfigurasi jaringan.
Pemeriksaan operasi fungsi logika cepat	<ul style="list-style-type: none">• Dengan menggunakan fungsi logika cepat, kontrol keluaran dapat disesuaikan dengan pola logika tanpa membuat program.

Bab ini menjelaskan cara membuat program keselamatan.

- 4.1 Membuat Data Baru
- 4.2 Program Safety
- 4.3 Perbedaan Antara Program Safety dan Program Standar
- 4.4 Standard/Safety Shared Labels
- 4.5 Membuat Standard/Safety Shared Labels
- 4.6 Mode Operasi Safety
- 4.7 Beralih Mode Operasi Safety
- 4.8 Ringkasan Bab Ini

Bagian ini menjelaskan cara membuat data program keselamatan baru.
Klik kanan [Fixed Scan] di [Program] di jendela navigasi, lalu pilih [Add New Data].
Pilih "Safety" di [Category] pada jendela New Data, lalu klik [OK].

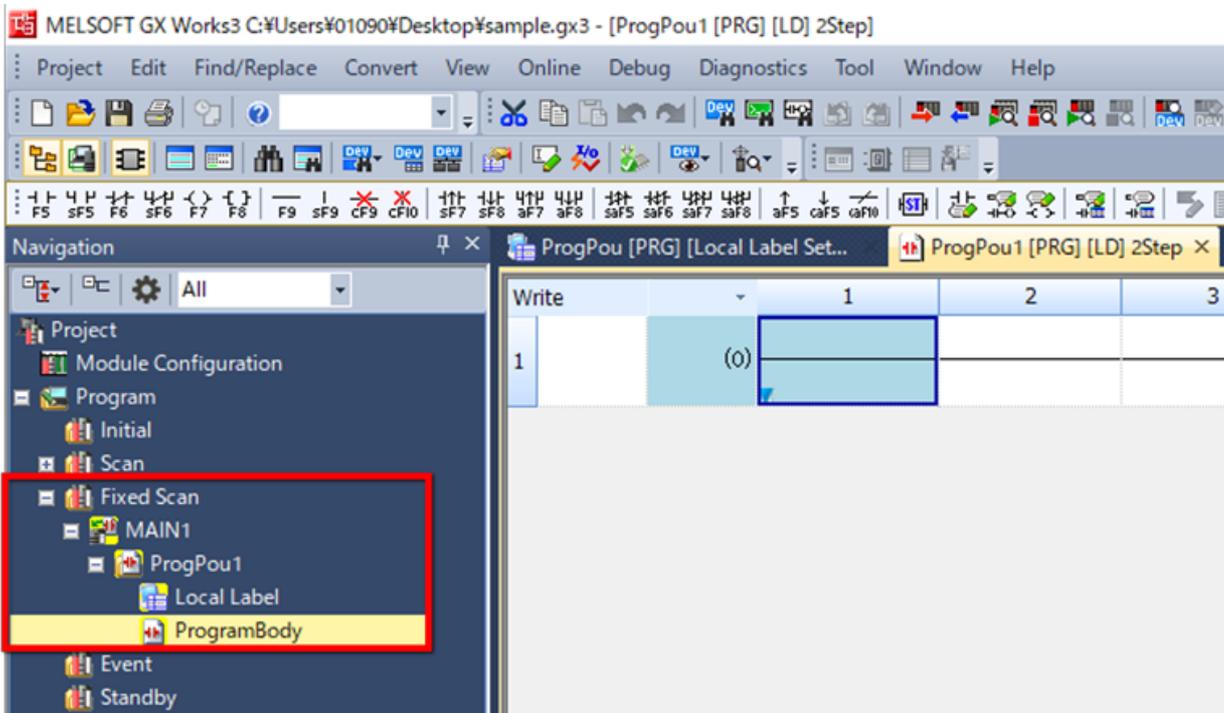


<Caution>

Program keselamatan hanya dapat dibuat dengan "Fixed scan execution type".

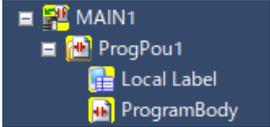
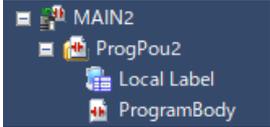
Program keselamatan dapat dibuat dengan cara yang sama seperti program biasa.

Prosedur untuk "Write to PLC" dari program keselamatan sama dengan prosedur untuk program standar.

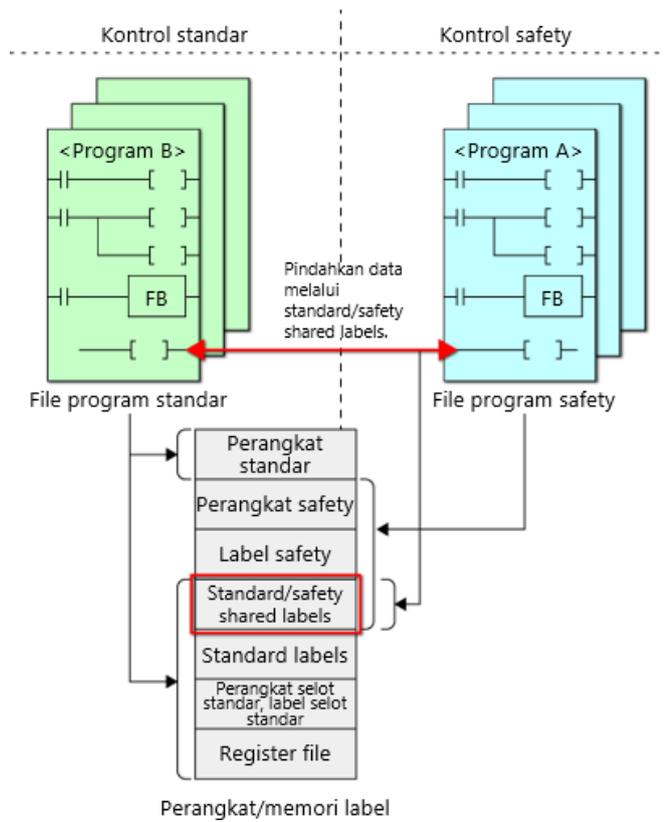


4.3 Perbedaan Antara Program Keselamatan dan Program Standar

Berikut ini adalah perbedaan antara program keselamatan dan program standar.

Item	Program Safety	Program standar
Ikon		
Bahasa program	Ladder	Ladder, ST, FBD/LD
Pengoperasian program	Jenis eksekusi pemindaian tetap	Jenis eksekusi awal Jenis eksekusi pemindaian Jenis eksekusi pemindaian tetap Jenis eksekusi peristiwa Jenis siaga
Jumlah program yang akan dieksekusi	32	252 (termasuk program keselamatan)
Perangkat pengguna yang tersedia	Input Safety (SA\X) Output Safety (SA\Y) Relai internal Safety (SA\M) Relai tautan Safety (SA\B) Timer Safety (SA\T) Timer retentif Safety (SA\ST) Penghitung Safety (SA\C) Register data Safety (SA\D) Register tautan Safety (SA\W)	Input (X) Output (Y) Relai internal (M) Relai selot (L) Relai tautan (B) Relai khusus tautan (SB) Alat isyarat (F) Relai ujung (V) Timer (T) Timer panjang (LT) Timer retentif (ST) Timer retentif panjang (LST) Penghitung (C) Penghitung panjang (LC) Register data (D) Register tautan (W) Relai khusus tautan (SW)
Perangkat sistem yang tersedia	Relai khusus Safety (SA\SM) Register khusus Safety (SA\SD)	Relai khusus (SM) Register khusus (SD) Input fungsi (FX) Output fungsi (FY) Register fungsi (FD)

Gunakan "Standard/Safety Shared Label" saat meneruskan data antara program keselamatan dan program standar.



Bagian ini menjelaskan cara membuat label bersama standar/keamanan.

Klik kanan [Label] di jendela navigasi dan pilih [Add New Data].

Pilih "Standard/Safety Shared" untuk [Category] di jendela New Data, dan masukkan nama di [Data Name], lalu klik [OK].

Jika Anda memasukkan nama label dalam data label yang dibuat dan memilih tipe data, label tersebut dapat dirujuk dalam program.

The 'New Data' dialog box contains the following information:

Basic Setting	
Category	Standard/Safety Shared
Data Type	Global Label
(Data Name)	safety

The resulting table in the 'safety [Global Label Setting]' window is as follows:

Label Name	Data Type	English (Display Target)
1 safety_data_1	Bit	... SAFETYDATA1
2		...

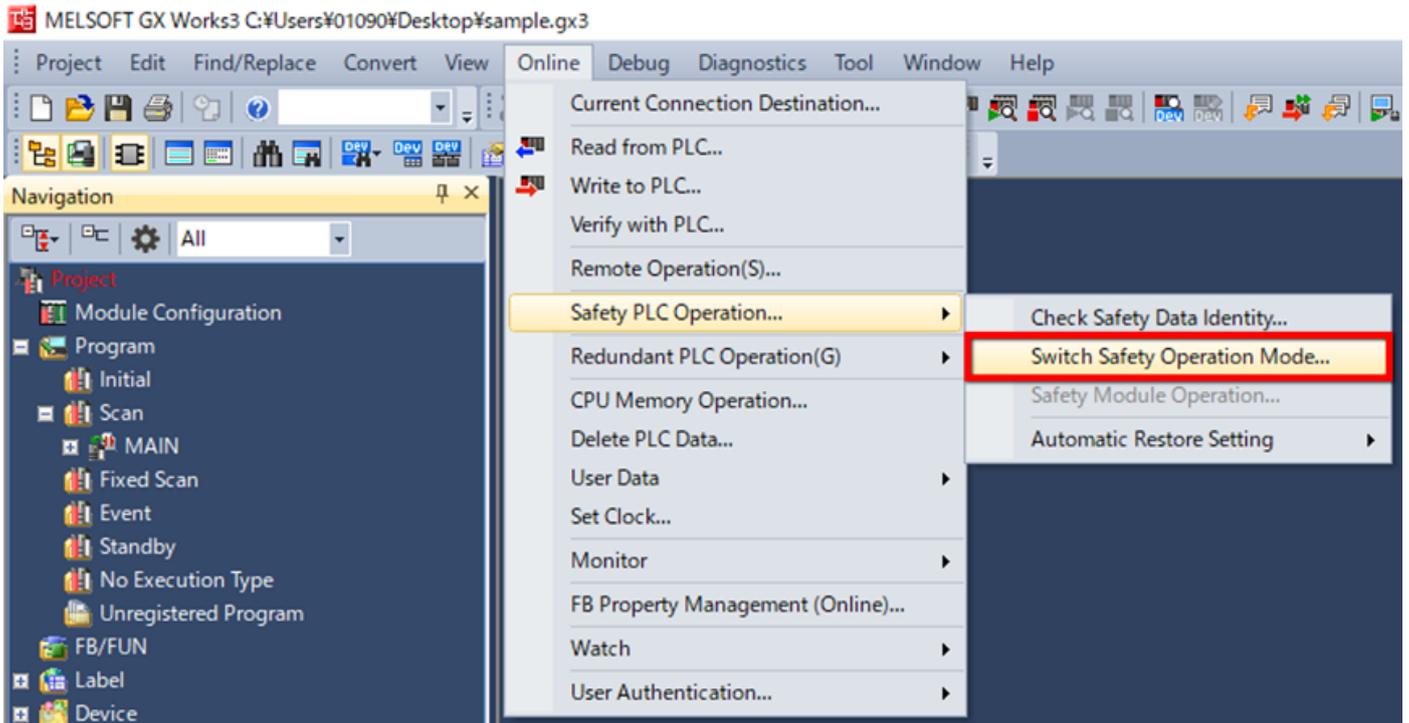
Mode operasi safety CPU dibagi menjadi dua mode sebagai berikut: Safety Mode (Operasi) dan Test Mode (Pemeliharaan). Saat sistem beroperasi, selalu atur safety CPU ke safety mode.

Mode operasi safety	Deskripsi
Safety mode	Mode ini ditujukan untuk mengoperasikan sistem keselamatan oleh safety CPU. Dalam mode ini, program keselamatan dan parameter keselamatan safety CPU tidak dapat diubah. Harap diingat bahwa nilai data perangkat hanya dapat diubah dalam program keselamatan.
Test mode	Mode ini ditujukan untuk melakukan pemeliharaan (seperti perubahan pengaturan dan pengujian) sistem keselamatan oleh safety CPU. Dalam mode ini, program keselamatan dan parameter keselamatan safety CPU dapat diubah. Harap diingat bahwa data perangkat dapat diubah menjadi nilai melalui device test.

* Untuk penjelasan selengkapnya, lihat "Panduan Pengguna Modul MELSEC iQ-R CPU" (Aplikasi).

Bagian ini menjelaskan cara mengganti mode operasi keselamatan.

Alihkan mode operasi safety dengan memilih [Online] - [Safety PLC Operation] - [Switch Safety Operation Mode].



<Caution>

Sebelum mengganti mode dari test mode ke safety mode, hentikan safety CPU.

Dalam bab ini, Anda telah mempelajari:

- Program safety
- Standard/safety shared labels
- Mode operasi safety

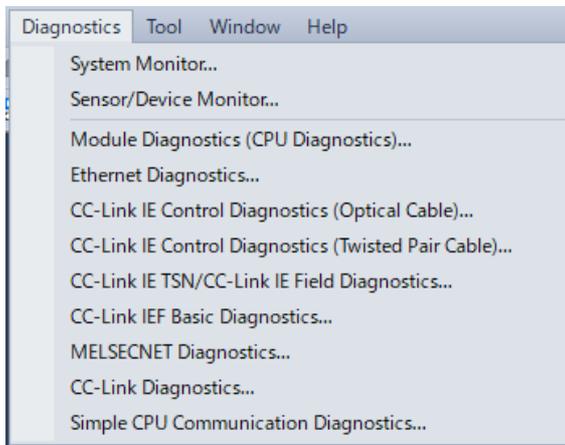
Poin-poin penting

Program safety	<ul style="list-style-type: none"> • Saat membuat program keselamatan, pilih "Safety" untuk [Category] di jendela New Data. • Program keselamatan hanya dapat dibuat dengan "Fixed scan execution type". • Program keselamatan dapat dibuat dengan cara yang sama seperti program standar. • Prosedur untuk "Write to PLC" dari program keselamatan sama dengan prosedur untuk program standar.
Standard/safety shared labels	<ul style="list-style-type: none"> • Gunakan "Standard/Safety Shared Label" saat meneruskan data antara program keselamatan dan program standar. • Saat membuat label Standard/Safety Shared Label, pilih "Standard/Safety Shared" untuk [Category] di jendela New Data.
Mode operasi safety	<ul style="list-style-type: none"> • Safety CPU memiliki dua mode operasi: "safety mode" untuk mengoperasikan sistem keselamatan dan "test mode" untuk pemeliharaan sistem keselamatan (seperti perubahan pengaturan dan pengujian).

Bab ini menjelaskan pemecahan masalah.

- 5.1 Pemecahan Masalah untuk Safety CPU
- 5.2 Membaca Data Riwayat Kesalahan Safety Remote I/O
- 5.3 Pemecahan Masalah untuk Fungsi Logika Cepat
- 5.4 Ringkasan Bab Ini

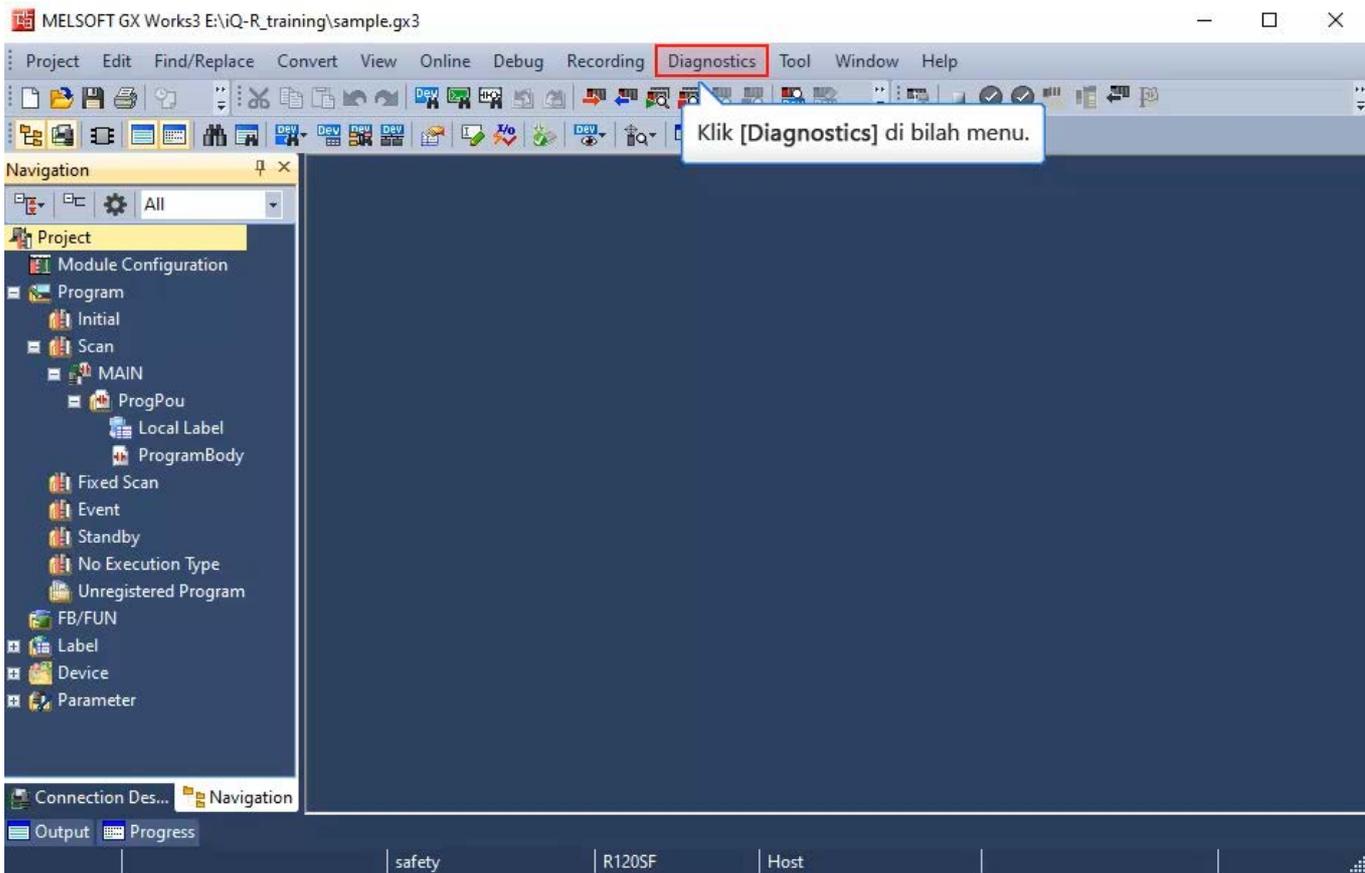
Pemecahan masalah untuk modul CPU standar (RnCPU) pada dasarnya dapat diterapkan ke Modul Safety CPU (RnSFCPU). Kumpulkan informasi error menggunakan "System Monitor" dan "Module Diagnostics (CPU Diagnostics)" dari GX Works3 dan temukan penyebabnya.



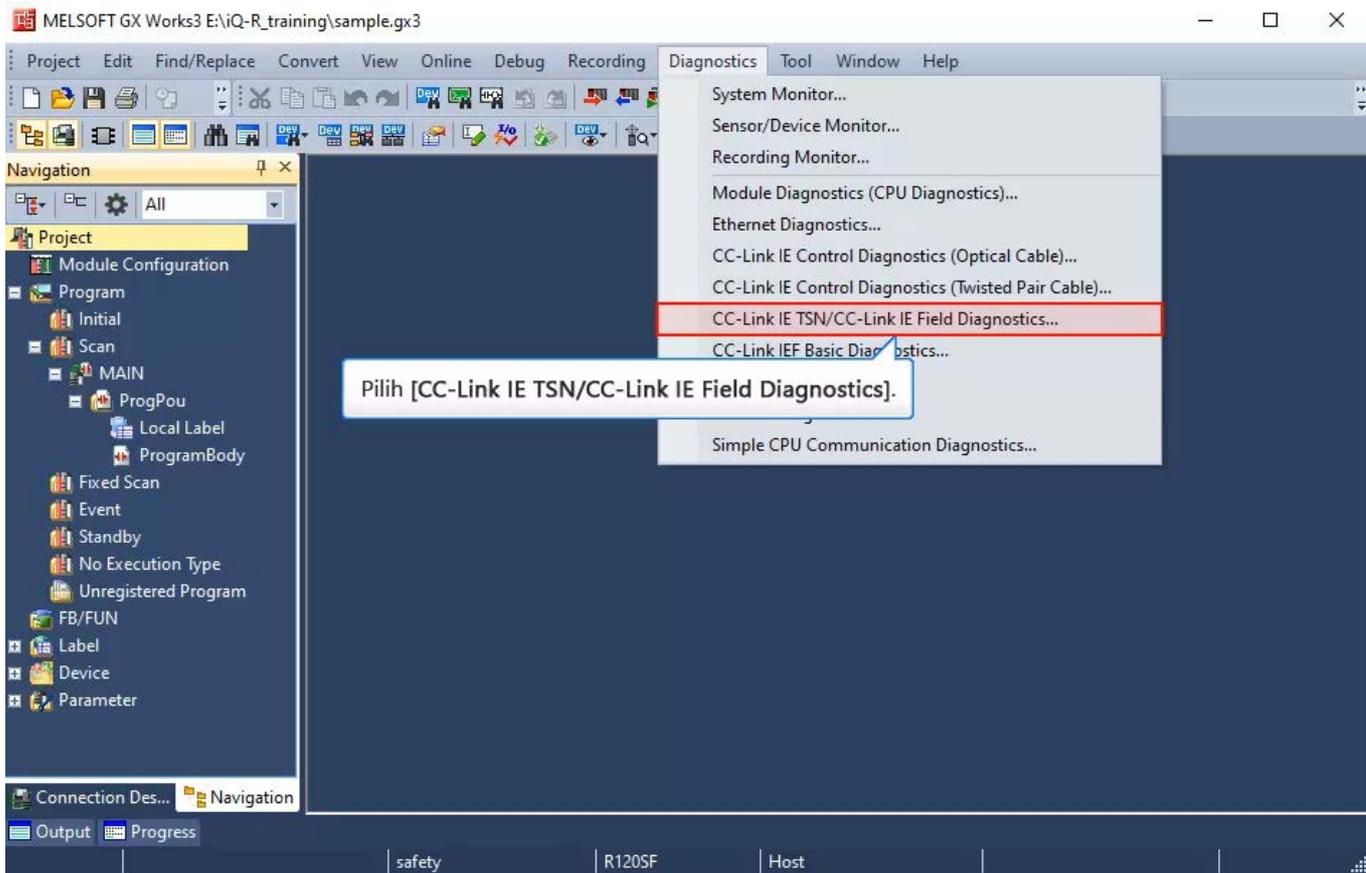
<Caution>

Pengoperasian "Error history read" dari safety remote I/O sedikit berbeda dari operasi untuk CPU umum. Bagian 5.2 memberi penjelasan lebih detail.

Data riwayat kesalahan safety remote I/O sudah dibaca.



Data riwayat kesalahan safety remote I/O sudah dibaca.



Data riwayat kesalahan safety remote I/O sudah dibaca.

CC-Link IE TSN/CC-Link IE Field Diagnostics

Select Diagnostics Destination
Module: Module 1 (Network No. 1) | Change Module... | Select Station: Station No. 1

Network Status
Total Slave Stations (Parameter): 1 | Total Slave Stations (Connected): 1 | Comm. Period Interval Value: 1000 us | Number of Station Errors Detected: 0
Unicast | <Previous | Next>

Monitor Status
Monitoring | Start Monitoring | Stop Monitoring
St. Info | By Device Name | Change IP Address Display
DEC (selected) | HEX

Connected Sta. Master:0 | Remote:1 (P1)

Layar CC-Link IE TSN/CC-Link IE Field Diagnostics muncul.

Selected Station Communication Status Monitor (NZ2GNSS2-16DTE)
Sta. No. 0 No Error | Network: CC IE TSN | Authentication Class: B
MAC Address: 58-52-8A-ED-3A-F4 | IP Address: 192.168.3.253

Operation Test
Communication Test... | Check the transient communication route from the connected station to the destination station.

Information Confirmation/Setting
Station Information List... | Able to check the one such as model name/IP address/F/W version of linked station in the list.

Selected Station Operation

Legend:
RUN (green) | ERR (black) | MST (green) | D LINK (green) | P1 SD/RD (green) | P2 SD/RD (black)

Data riwayat kesalahan safety remote I/O sudah dibaca.

CC-Link IE TSN/CC-Link IE Field Diagnostics

Select Diagnostics Destination
Module: Module 1 (Network No. 1) | Change Module... | Select Station: Station No. 1

Monitor Status
Monitoring | Start Monitoring | Stop Monitoring
St. Info | By Device Name | Change IP Address Display
DEC (selected) | HEX

Network Status
Total Slave Stations (Parameter): 1 | Total Slave Stations (Connected): 1 | Comm. Period Interval Value: 1000 us | Number of Station Errors Detected: 0
Unicast | <Previous | Next>

Connected Sta. Master: 0 | Remote: 1
P1 | NZ2GNSS2-16DTE

Selected Station Communication Status Monitor (NZ2GNSS2-16DTE)
Sta. No. 1 | No Error | Network: CC IE TSN | Authentication Class: B
MAC Address: 28-E9-8E-1E-00-57 | IP Address: 192.168.3.1

Operation Test
Communication Test... | Check the transient communication route from the connected station to the destination station.

Information Confirmation/Setting
Station Information List... | Able to check the one such as model name/IP address/F/W version of linked station in the list.

Selected Station Operation

Data riwayat kesalahan safety remote I/O sudah dibaca.

CC-Link IE TSN/CC-Link IE Field Diagnostics

Select Diagnostics Destination
 Module: Module 1 (Network No. 1) | Change Module... | Select Station: Station No. 1

Network Status
 Total Slave Stations (Parameter): 1 | Total Slave Stations (Connected): 1 | Comm. Period Interval Value: 1000 us | Number of Station Errors Detected: 0
 Unicast | <Previous | Next>

Monitor Status
 Monitoring | Start Monitoring | Stop Monitoring
 St. Info | By Device Name | Change IP Address Display
 DEC | HEX
 Update(K)... | Legend... | Data Unlinked

Connected Sta.
 Master: 0 | Remote: 1
 P1

Selected Station Communication Status Monitor (NZ2GNSS2-16DTE)
 Sta. No. 1 | No Error | Network: CC IE TSN | Authentication Class: B
 MAC Address: 28-E9-8E-1E-00-57 | IP Address: 192.168.3.1

Operation Test
 Communication Test... | Check the transient communication route from the connected station to the destination station.

Information Confirmation/Setting
 Station Information List... | Able to check the one such as model name/IP address/F/W version of linked station in the list.

Selected Station Operation

Data riwayat kesalahan safety remote I/O sudah dibaca.

CC-Link IE TSN/CC-Link IE Field Diagnostics

Select Diagnostics Destination
Module: Module 1 (Network No. 1) Change Module... Select Station: Station No. 1

Monitor Status
Monitoring Start Monitoring Stop Monitoring
St. Info By Device Name: [v]
Change IP Address Display: DEC HEX
Update(K)... Legend... Data Unlinked

Network Status
Total Slave Stations (Parameter): 1 Total Slave Stations (Connected): 1 Comm. Period Interval Value: 1000 us Number of Station Errors Detected: 0
Unicast <Previous Next>

Connected Sta.
Master: 0 Remote: 1
P1

MELSOFT GX Works3

! Are you sure you want to read the error history?
Please check the following points.

- The device value for which remote I/O/remote register is refreshed may be overwritten.
- Access to PLC CPU after using current connection destination. Please check whether the connection destination has no error.
- The parameter written to PLC CPU is restored.
- Please refer to the manual for the information about the item for which the content is not displayed on the screen.

Yes No

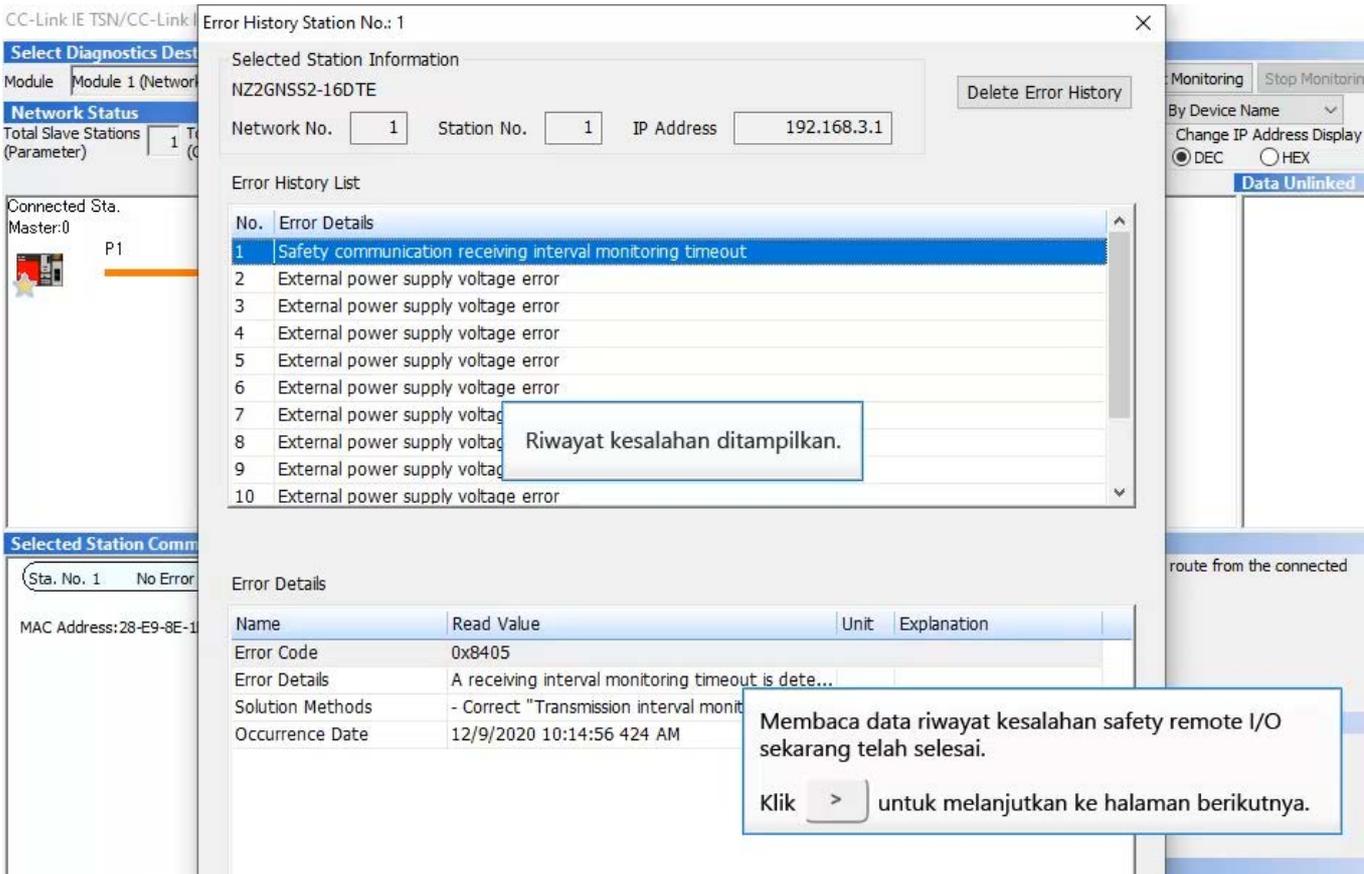
Selected Station Communication Status Monitor
Sta. No. 1 No Error Network: CC IE T Authentication Clas
MAC Address: 28-E9-8E-1E-00-57

Information/Setting
Station In Able to check the one such as model name/IP address/F/W version of linked station in the list.

Selected Station Operation

Klik [Yes].

Data riwayat kesalahan safety remote I/O sudah dibaca.



CC-Link IE TSN/CC-Link IE

Select Diagnostics Dest

Module Module 1 (Network)

Network Status

Total Slave Stations (Parameter) 1

Connected Sta. Master:0

P1

Selected Station Comm

Sta. No. 1 No Error

MAC Address:28-E9-8E-1

Error History Station No.: 1

Selected Station Information

NZ2GNSS2-16DTE

Delete Error History

Network No. 1 Station No. 1 IP Address 192.168.3.1

Error History List

No.	Error Details
1	Safety communication receiving interval monitoring timeout
2	External power supply voltage error
3	External power supply voltage error
4	External power supply voltage error
5	External power supply voltage error
6	External power supply voltage error
7	External power supply voltage error
8	External power supply voltage error
9	External power supply voltage error
10	External power supply voltage error

Riwayat kesalahan ditampilkan.

Error Details

Name	Read Value	Unit	Explanation
Error Code	0x8405		
Error Details	A receiving interval monitoring timeout is detected.		
Solution Methods	- Correct "Transmission interval monitoring time" parameter.		
Occurrence Date	12/9/2020 10:14:56 424 AM		

Membaca data riwayat kesalahan safety remote I/O sekarang telah selesai.
Klik > untuk melanjutkan ke halaman berikutnya.

Monitoring Stop Monitoring

By Device Name

Change IP Address Display

DEC HEX

Data Unlinked

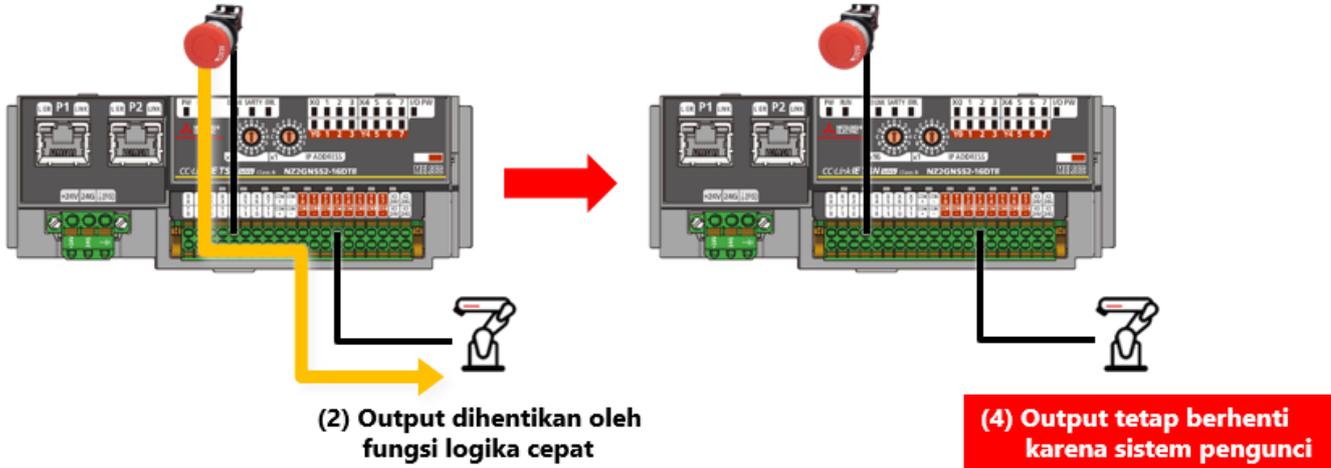
route from the connected

Ketika output dimatikan oleh fungsi logika cepat, output akan terkunci.

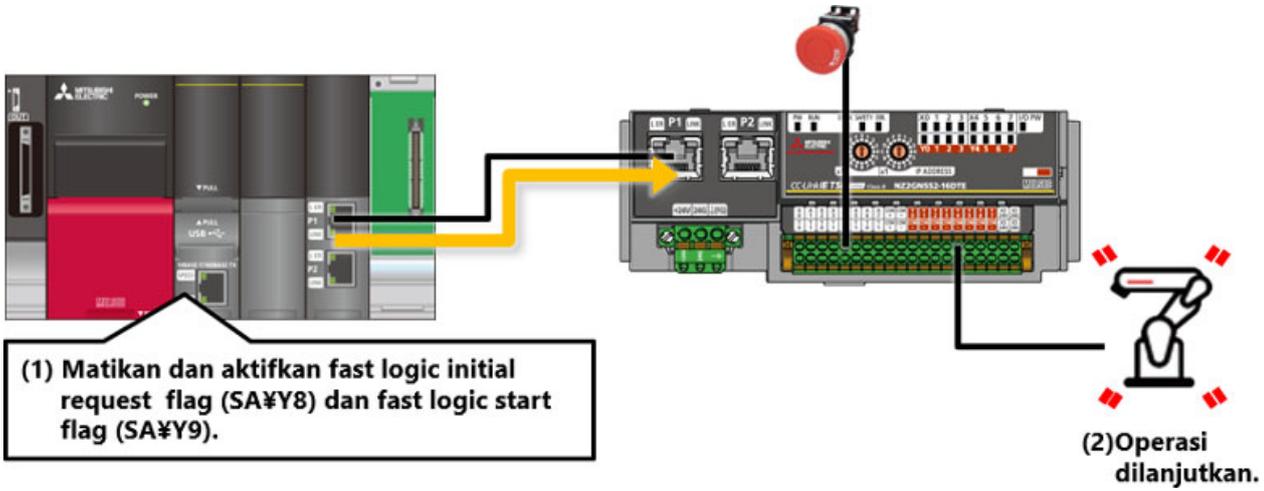
Dalam keadaan logika cepat terkunci, sinyal output (Y0/Y1) tidak akan menyala lagi jika instruksi mulai ulang atau input sinyal setel ulang atau sinyal mulai tidak dikeluarkan dari modul CPU.

(1) Tekan sakelar berhenti darurat

(3) Penghentian darurat dibatalkan.



Saat memulai ulang fungsi logika cepat ketika pengunci logika cepat diaktifkan, mematikan dan mengaktifkan fast logic initial request flag (SA¥Y8) dan fast logic start flag (SA¥Y9) akan menyalakan fast logic READY (SA¥XC) dan melanjutkan operasi. Ketika pola logika cepat diatur ke pola 2 atau pola 3, X7 dapat digunakan sebagai sinyal setel ulang, alih-alih SA¥Y8, dan X6 dapat digunakan sebagai sinyal awal, alih-alih SA¥Y9.



Dalam bab ini, Anda telah mempelajari:

- Pemecahan masalah safety CPU
- Membaca data riwayat kesalahan safety remote I/O
- Pemecahan masalah untuk fungsi logika cepat

Poin-poin penting

Pemecahan masalah untuk safety CPU	<ul style="list-style-type: none"> • Prosedur pemecahan masalah untuk safety CPU (RnSFCPU) pada dasarnya sama dengan CPU umum (RnCPU). • Kumpulkan informasi error menggunakan "System Monitor" dan "Module Diagnostics (CPU Diagnostics)" dari GX Works3 dan temukan penyebabnya.
Membaca data riwayat kesalahan safety remote I/O	<ul style="list-style-type: none"> • Lakukan operasi "Error history read" safety remote I/O dengan "CC-Link IE TSN/CC-Link IE Field Diagnostics".
Pemecahan masalah untuk logika cepat	<ul style="list-style-type: none"> • Ketika logika cepat berhenti beroperasi, matikan dan aktifkan fast logic initial request flag dan fast logic start flag untuk melanjutkan operasi.

Setelah menyelesaikan semua pelajaran dari **Safety CPU Seri MELSEC iQ-R, Safety Remote I/O**, kini Anda siap mengikuti tes akhir. Jika Anda masih kurang memahami salah satu topik yang dibahas, gunakan kesempatan ini untuk mengulas topik tersebut.

Total terdapat 5 pertanyaan (5 pilihan) dalam Tes Akhir ini.

Anda dapat mengikuti tes akhir sesering mungkin.

Hasil penilaian

Jumlah jawaban yang benar, jumlah pertanyaan, persentase jawaban yang benar, dan hasil lulus/gagal akan ditampilkan pada halaman nilai.

		1	2	3	4	5	6	7	8	9	10	11	12	
Coba lagi	Tes 1	✓	✓	✓	✗									Jumlah total pertanyaan: 28
	Tes 2	✓	✓	✓	✓									Jawaban yang benar: 23
	Tes 3	✓												Persentase: 82 %
	Tes 4	✓	✓											
	Tes 5	✓	✓											
Coba lagi	Tes 6	✓	✗	✗	✗									
	Tes 7	✓	✓	✓	✓									
	Tes 8	✓	✓	✓	✓	✓								
	Tes 9	✓												
Coba lagi	Tes 10	✗												

Untuk berhasil lulus tes, diperlukan jawaban yang benar sebanyak **60%**.

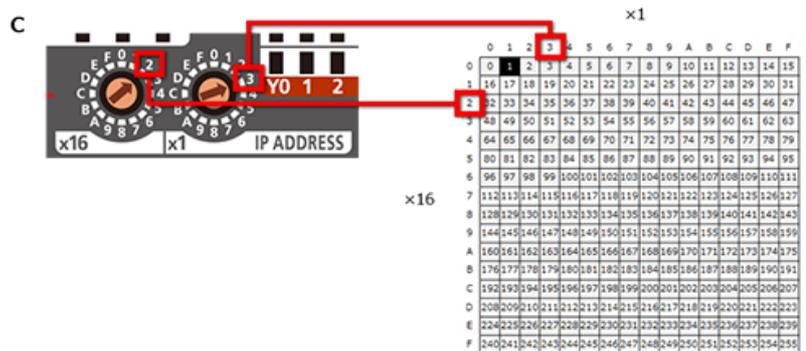
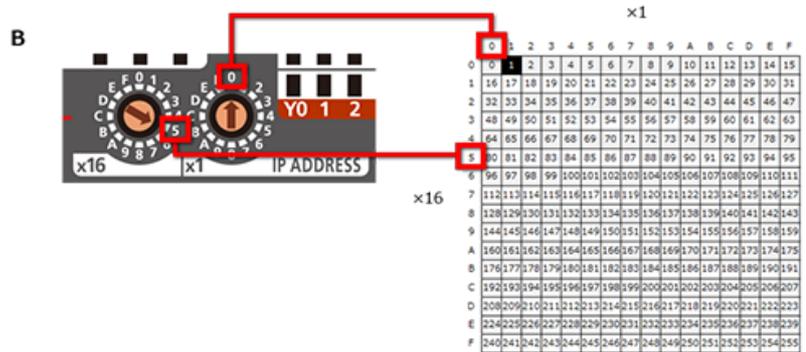
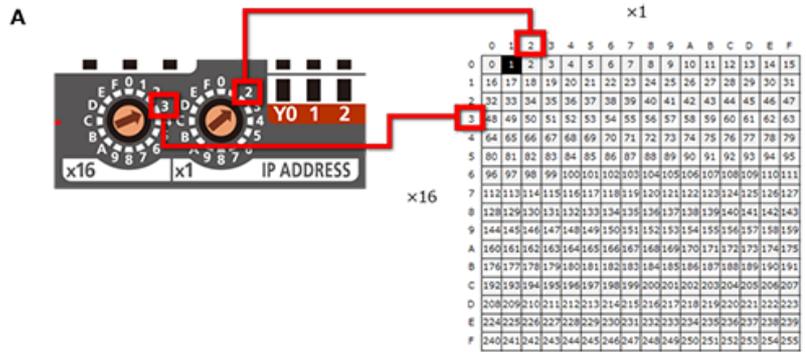
Pilih perangkat lunak yang benar yang diperlukan saat membangun sistem yang menggunakan safety CPU MELSEC seri iQ-R.

Q1 MELSOFT GX Works2 MELSOFT GX Works3 MELSOFT MT Works2 MELSOFT GT Works3 RT ToolBox2

Pilih sakelar pengaturan alamat IP yang benar saat mengatur alamat IP "192.168.3.50".

Q1

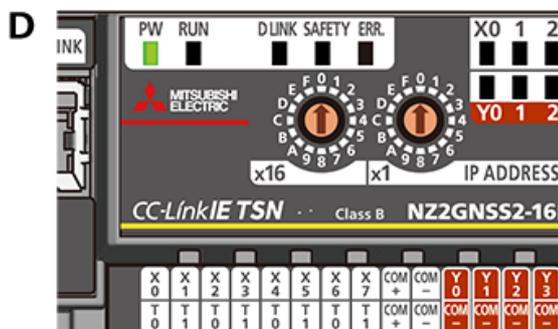
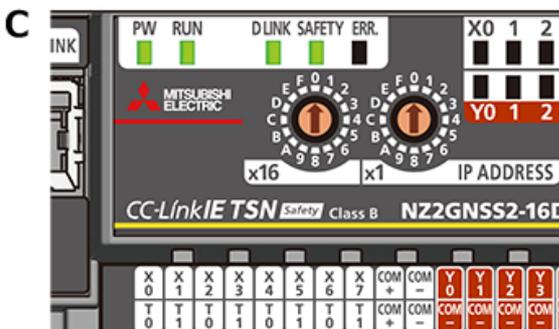
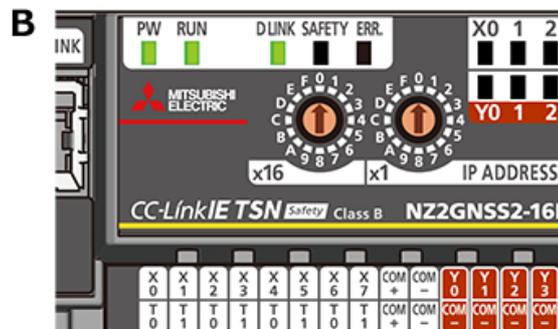
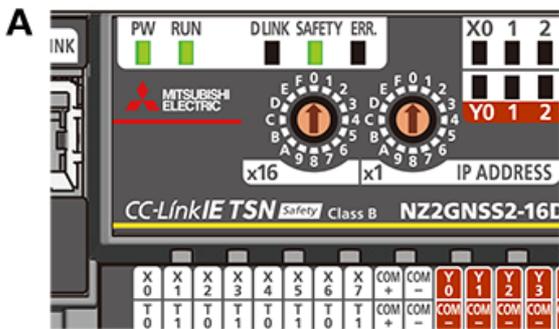
- A
- B
- C



Pilih status LED modul safety remote I/O dalam operasi normal.

Q1

- A
- B
- C
- D



Pilih semua jenis eksekusi program yang dapat digunakan untuk membuat program keselamatan.

Q1

Jenis eksekusi pemindaian awal

Jenis eksekusi pemindaian

Jenis eksekusi pemindaian tetap

Jenis eksekusi peristiwa

Jenis siaga

Pilih penjelasan yang benar tentang ikhtisar fungsi logika cepat.

Q1

- Fungsi ini beroperasi melalui stasiun master dan dapat melakukan kontrol output berkecepatan tinggi.
- Status output hanya dapat diubah melalui pemrosesan modul CPU, seperti program.
- Mengatur pola logika dan membuat program ladder penting untuk dilakukan.
- Ini adalah fungsi yang menjalankan kontrol output sesuai dengan status input didalam modul safety remote I/O tanpa melalui stasiun master.
- Karena status output dapat diubah tanpa pemrosesan modul CPU seperti program, kontrol output berkecepatan tinggi memungkinkan untuk digunakan.

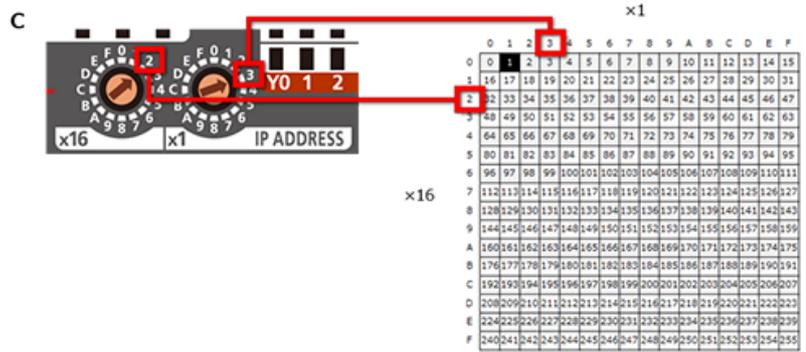
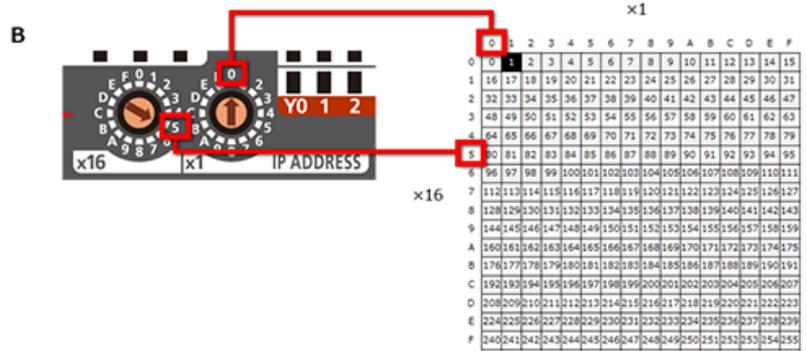
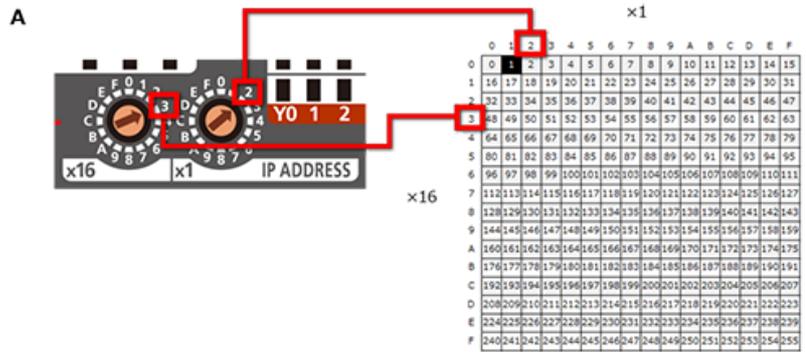
Pilih perangkat lunak yang benar yang diperlukan saat membangun sistem yang menggunakan safety CPU MELSEC seri iQ-R.

Q1 MELSOFT GX Works2 MELSOFT GX Works3 MELSOFT MT Works2 MELSOFT GT Works3 RT ToolBox2

Pilih sakelar pengaturan alamat IP yang benar saat mengatur alamat IP "192.168.3.50".

Q1

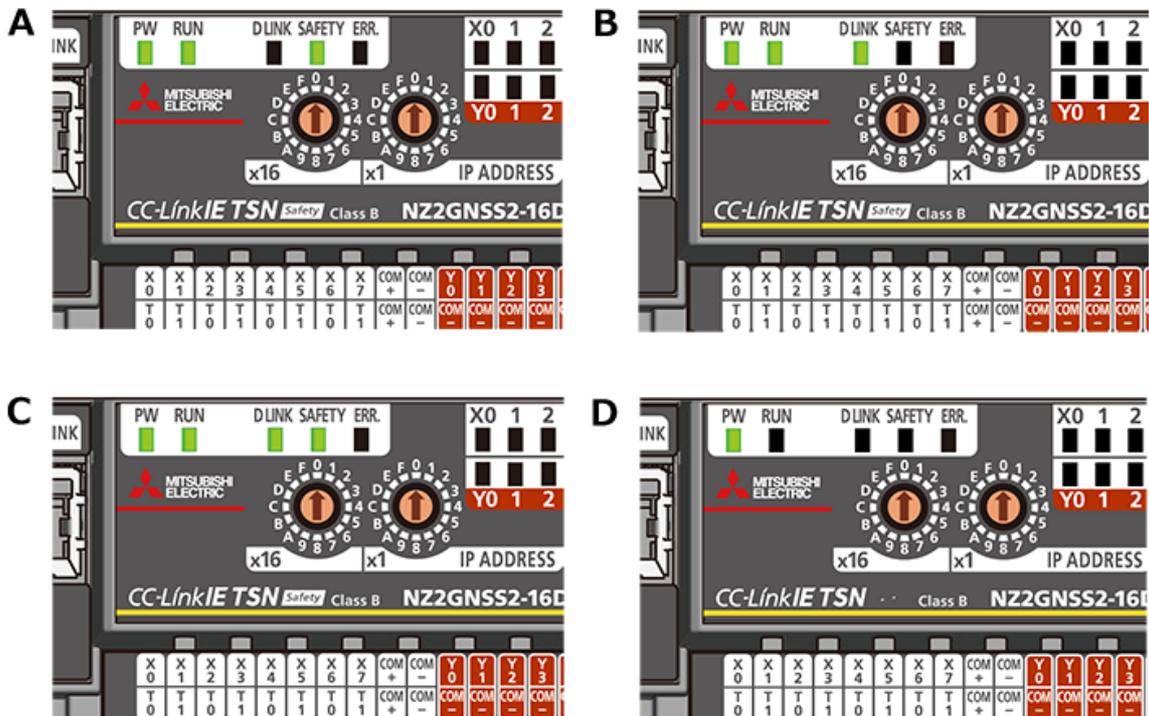
- A
- B
- C



Pilih status LED modul safety remote I/O dalam operasi normal.

Q1

- A
- B
- C
- D



Pilih semua jenis eksekusi program yang dapat digunakan untuk membuat program keselamatan.

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Jenis eksekusi pemindaian tetap

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- Karena status output dapat diubah tanpa pemrosesan modul CPU seperti program, kontrol output berkecepatan tinggi memungkinkan untuk digunakan.

Anda telah menyelesaikan Tes Akhir.
Hasil Anda adalah sebagai berikut.

	1	2	3	4	5	6	7	8	9	10
Tes Akhir 1	✓									
Tes Akhir 2	✓									
Tes Akhir 3	✓									
Tes Akhir 4	✓									
Tes Akhir 5	✓									

Jumlah total pertanyaan: **5**

Jawaban yang benar: **5**

Persentase: **100 %**

Hapus

**Anda telah menyelesaikan Kursus "Safety CPU Seri MELSEC iQ-R,
Safety Remote I/O".**

Terima kasih telah mengikuti kursus ini.

Kami harap Anda menikmati pelajaran, dan kami harap informasi yang diperoleh dalam kursus ini dapat bermanfaat di masa mendatang.

Anda dapat mengulas kursus ini kapanpun Anda mau.

Tinjau

Tutup