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Mitsubishi Electric Launches MELSEC iQ-R Series
IEC 61508 SIL 2-compliant Redundant Programmable Controller
Realizes redundant system configuration that is compliant with international safety standards

TOKYO, October 30, 2017 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that it will launch its newest MELSEC iQ-R Series general-purpose programmable controller, the IEC 61508 SIL 2-compliant redundant programmable controller paired with a redundant-function SIL2 CPU set for high performance and extra reliability, on October 31. To help reduce total cost of ownership (TCO), the system integrates detectors and controllers for monitoring and management and a safety programmable controller compliant with international safety standards.

Product Features

1) Compliant with international safety standards
   - Compliant with IEC 61508 SIL 2, which is required for infrastructure systems, and has been certified by TÜV Rheinland® to meet global needs

2) Integrated process control and safety control realizes TCO reduction
   - GX Works3 engineering software integrates process- and safety-control programming
   - Enables execution of integrated process- and safety-control programs with a single CPU module (to execute generic control programs sequentially), thereby helping to reduce total cost of ownership

3) Redundant configuration realizes highly reliable system
   - Redundant basic system (SIL2 CPU set\(^1\), power supply module, basic base unit, network module) ensures continuous operation by switching to standby if error occurs in control system

\(^1\) SIL2-process CPU module and SIL2-function module included as set. Can only be used in redundant configuration
<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Program capacity</th>
<th>Release</th>
<th>Target sales in 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIL2-process</td>
<td>R08PSFCPU-SET</td>
<td>80K steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPU set</td>
<td>R16PSFCPU-SET</td>
<td>160K steps</td>
<td>October 31</td>
<td>300 units</td>
</tr>
<tr>
<td></td>
<td>R32PSFCPU-SET</td>
<td>320K steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>R120PSFCPU-SET</td>
<td>1200K steps</td>
<td></td>
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</tr>
</tbody>
</table>

2 40K-step safety control program capacity

**Purpose of Launch**

In recent years, compliance with international safety standards has become an essential requirement for infrastructure in the ASEAN and European markets. In addition, quick recovery from control-system breakdowns has become a common requirement.

Mitsubishi Electric’s newest MELSEC iQ-R Series controller, the IEC 61508 SIL 2-compliant redundant programmable controller, is compliant with international safety standards and has been certified by TÜV Rheinland®. The high-performance, extra-reliable system integrates process- and safety-control and redundant functions to reduce total cost of ownership.

**Other Models for System Configuration**

Analog module (supports SIL 2) will be released soon.

<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Key specifications</th>
</tr>
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<tbody>
<tr>
<td>Redundant-function module</td>
<td>R6RFM</td>
<td>1Gbps optical fiber cable</td>
</tr>
<tr>
<td>I/O module (with diagnostics function)</td>
<td>RX40NC6B³</td>
<td>DC input (16 points)</td>
</tr>
<tr>
<td></td>
<td>RY40PT5B³</td>
<td>Transistor output (16 points)</td>
</tr>
<tr>
<td>Network module</td>
<td>RJ71GF11-T2⁴</td>
<td>CC-Link IE Field</td>
</tr>
<tr>
<td></td>
<td>RJ72GF15-T2⁵</td>
<td>CC-Link IE Field Remote head</td>
</tr>
</tbody>
</table>

³ Firmware version of "02" or later support SIL 2 (from October 31 version)  
⁴ Firmware version of "23" or later support SIL 2 (from October 31 version)  
⁵ Firmware version of "04" or later support SIL 2 (from October 31 version)

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**About Mitsubishi Electric Corporation**

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,238.6 billion yen (US$ 37.8 billion*) in the fiscal year ended March 31, 2017. For more information visit: www.MitsubishiElectric.com

*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017

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