

TECHNICAL BULLETIN

[Issue No.] FA-Y-0001

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[Title] Addition of the high sensitivity mode to the MELSEC-Q series, QE82LG

[Date of Issue] July 2013

[Relevant Models] QE82LG

Thank you for your continuous support for Mitsubishi programmable logic controllers, MELSEC series.
The high sensitivity mode has been added to the MELSEC-Q series, QE82LG.

1. Changed functions

The high sensitivity mode which enables to measure from 0.01mA is added to current measuring mode (low sensitivity mode).

By setting of intelligent function module switch 4, either low sensitivity mode or high sensitivity mode can be selected.

Item	Current	New
Operation mode *1	Measuring mode (low sensitivity mode), Test mode	Low sensitivity mode, High sensitivity mode, Test mode
Measuring range	0-1000mA	Low sensitivity mode : 0-1000mA High sensitivity mode : 0.00-100.00mA
Resolution	1mA	Low sensitivity mode : 1mA High sensitivity mode : 0.01mA
Primary and secondary alarm value	1-1000mA	Low sensitivity mode : 1-1000mA High sensitivity mode : 0.01-100.00mA
Intelligent function module switch No. 4	Not used	0 : Low sensitivity mode 1 : High sensitivity mode
Buffer memory address : 100 *2	System area	Multiplying factor for Io and Ior Low sensitivity mode : 0 (= 10^0) High sensitivity mode : -2 (= 10^{-2})
Product information *3	—	After 15061 00000 00000-B
Serial No. *4	—	After 15061 2XXXX XXXXX-B (X : any)

*1 If operation mode is changed (from low to high or from high to low), following value is reset.

(a) Primary and secondary alarm value, reset method and delay time of Io and Ior (Ch1 and Ch2)

(b) Maximum value / Year, month, day, hour, minute, second and day of the week of time of maximum value of Io and Ior (Ch1 and Ch2)

(c) Primary and secondary alarm occurrence count (Ch1 and Ch2)

When operation mode is changed to test mode (from low to test or from high to test), last value is kept.

*2 Present value and maximum value become a true value by taking multiplying factor.

ex. In case of high sensitivity mode: $12345 \times 10^{-2} = 123.45\text{mA}$

*3 Product information can be checked by system monitor of GX Developer or GX Works2.

*4 Serial number is written on the front of the case.

2. Reason for the change

To measure small leakage current value like that of low capacity motor



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3. About version-up

High sensitivity mode can not be added to current product.

4. Schedule

This change is effective from July 2013.

But please note that the shipment timing could be delayed depending on the stock situation.

REVISIONS

Version	Print Date	Revision
-	July 2013	First edition