

Changes in the rating plate and the front part of modules according to the compliance with ANSI/ISA-12.12.01

■Date of Issue

September 2014 (Ver. F: May 2022)

■Relevant Models

MELSEC-Q series, MELSEC iQ-R series

Thank you for your continued support of Mitsubishi Electric programmable controllers, MELSEC-Q series and MELSEC iQ-R series.

We will change the descriptions on the rating plate and on the front part of modules according to the compliance with ANSI/ISA-12.12.01.

There is no impact on the general specifications, performance specifications, functions, and external dimensions of modules due to these changes.

1 Reason for the change


Products are certified for ANSI/ISA-12.12.01.

2 Details on the changes

Rating plate

Descriptions are reviewed and changed so that they correspond to the ANSI/ISA-12.12.01 standard.

Front part of a module (MELSEC-Q series only)

A warning mark () is added near the terminal only for the modules having an RS-232 terminal (round connector).

This mark means that disconnecting and connecting of the RS-232 cable are prohibited unless the programmable controllers are powered off or in the place free from dangers.

3 ANSI/ISA-12.12.01 certification

Products that are certified for ANSI/ISA-12.12.01 can be used in hazardous locations for Class I, Division 2, Groups A, B, C, and D.

- Description of hazardous locations

Location	Description
Class I	Locations in which flammable gases, flammable liquid-produced vapors or combustible liquid-produced vapors may be present in the air in quantities sufficient to produce explosive or ignitable mixtures
Division 2	Locations where ignitable concentrations of flammable gases, vapors, or liquids are not likely to exist under normal operating conditions
Group A	Combustible gas/vapor (Example: Acetylene)
Group B	Combustible gas/vapor (Example: Hydrogen)
Group C	Combustible gas/vapor (Example: Ethylene)
Group D	Combustible gas/vapor (Example: Propane)

4 Relevant models

Changes in the rating plate (MELSEC-Q series)

The changes to each product will take place in the following changeover period. Please take note that before-change and after-change products may be mixed together at the distribution stage.

Module	Model	Changeover period
Universal model QCPU	Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q26UDEHCPU, Q50UDEHCPU, Q100UDEHCPU	September 2014 or later
	Q03UDVCPU, Q04UDVCPU, Q04UDPVCPU, Q06UDVCPU, Q06UDPVCPU, Q13UDVCPU, Q13UDPVCPU, Q26UDVCPU, Q26UDPVCPU	January 2016 or later
Process CPU	Q02PHCPU, Q06PHCPU, Q12PHCPU, Q25PHCPU	September 2014 or later
Redundant CPU	Q12PRHCPU, Q25PRHCPU	
C Controller module	Q12DCCPU-V	January 2016 or later
Main base unit	Q35B, Q38B, Q312B	September 2014 or later
Extension base unit	Q65B, Q68B, Q612B	
Redundant power supply main base unit	Q38RB	
Redundant power supply extension base unit	Q68RB	January 2016 or later
Extension base unit for the redundant system	Q65WRB	September 2014 or later
Power supply module	Q61P, Q62P, Q63P, Q64PN	
Life detection power supply module	Q61P-D	January 2016 or later
Power supply module for the redundant power supply system	Q63RP, Q64RP	September 2014 or later
	Q64RPN	January 2016 or later
Input module	QX10, QX70, QX71, QX72, QX80, QX81, QX82	September 2014 or later
	QX42	January 2016 or later
Output module	QY10, QY22, QY70, QY71, QY80, QY81P	September 2014 or later
	QY82P	January 2016 or later
Interrupt module	QI60	September 2014 or later
Analog-digital converter module	Q66AD-DG, Q68AD-G	
	Q62AD-DGH, Q64AD, Q64ADH, Q64AD-GH, Q68ADV, Q68ADI	January 2016 or later
Digital-analog converter module	Q62DA-FG, Q66DA-G	September 2014 or later
	Q62DAN, Q64DAH, Q64DAN, Q68DAVN, Q68DAIN	January 2016 or later
Analog input/output module	Q64AD2DA	
Load cell input module	Q61LD	September 2014 or later
RTD input module	Q64RD-G, Q68RD3-G	
	Q64RD	January 2016 or later
Thermocouple input module	Q64TDV-GH, Q68TD-G-H02	September 2014 or later
	Q64TD, Q68TD-G-H01	January 2016 or later
Temperature control module	Q64TCRTN, Q64TCRTBWN, Q64TCTTN, Q64TCTTBWN	

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Module	Model	Changeover period
Loop control module	Q62HLC	September 2014 or later
Channel isolated pulse input module	QD60P8-G	
Ethernet module	QJ71E71-100	
Serial communication module	QJ71C24N, QJ71C24N-R2, QJ71C24N-R4	
PROFIBUS-DP module	QJ71PB92V, QJ71PB93D	
High speed data logger module	QD81DL96	
CC-Link IE Controller Network module	QJ71GP21-SX, QJ71GP21S-SX	
CC-Link IE Field Network module	QJ71GF11-T2	
MELSECNET/H module	QJ71LP21-25, QJ71LP21S-25, QJ72LP25-25	September 2014 or later
CC-Link module	QJ61BT11N	
MODBUS interface module	QJ71MB91	
MODBUS/TCP interface module	QJ71MT91	September 2014 or later
Tracking cable for the Redundant CPU	QC10TR, QC30TR	
Extension cable	QC05B, QC06B, QC30B	

Changes in the rating plate (MELSEC iQ-R series)

The changes to each product will take place in the following changeover period. Please take note that before-change and after-change products may be mixed together at the distribution stage.

Module	Model	Changeover period
Programmable controller CPU	R04CPU, R08CPU, R16CPU, R32CPU, R120CPU	February 2015 or later
	R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, R120ENCPU	September 2017 or later
Process CPU	R08PCPU, R16PCPU, R32PCPU, R120PCPU	
C Controller module	R12CCPU-V	
Safety CPU	R08SFCPU, R16SFCPU, R32SFCPU, R120SFCPU	
Redundant function module	R6RFM	
Safety function module	R6SFM	
Main base unit*1	R33B	June 2022 or later
	R35B, R38B, R312B	February 2015 or later
	R310B-HT, R310RB, R38RB-HT	September 2017 or later
Extension base unit*1	R65B, R68B, R612B	February 2015 or later
	R610B-HT, R610RB, R68RB-HT	September 2017 or later
RQ extension base unit*1	RQ65B, RQ68B, RQ612B	February 2015 or later
Power supply module	R61P, R63P	September 2017 or later
	R62P, R64P, R63RP, R64RP	
Input module	RX10, RX40C7, RX41C4, RX42C4	February 2015 or later
	RX40PC6H, RX40NC6H, RX41C6HS, RX61C6HS, RX40NC6B	September 2017 or later
Output module	RY10R2, RY40NT5P, RY41NT2P, RY42NT2P, RY40PT5P, RY41PT1P, RY42PT1P	February 2015 or later
	RY41NT2H, RY41PT2H, RY40PT5B	September 2017 or later
I/O combined module	RH42C4NT2P	February 2015 or later
Analog input module	R60AD4, R60ADV8, R60ADI8	September 2017 or later
	R60AD8-G, R60AD16-G, R60ADH4	
Analog output module	R60DA4, R60DAV8, R60DAI8	February 2015 or later
	R60DA8-G, R60DA16-G	September 2017 or later
Positioning module	RD75P2, RD75P4, RD75D2, RD75D4	February 2015 or later
Channel isolated RTD input module	R60RD8-G	September 2017 or later
Channel isolated thermocouple input module	R60TD8-G	
Temperature control module	R60TCTRT2TT2, R60TCTRT2TT2BW, R60TCRT4, R60TCRT4BW	
High-speed counter module	RD62P2, RD62P2E, RD62D2	February 2015 or later
MES interface module	RD81MES96	September 2017 or later
High speed data logger module	RD81DL96	
C intelligent function module	RD55UP06-V	

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Module	Model	Changeover period
Ethernet module (with built-in CC-Link IE)	RJ71EN71	February 2015 or later
CC-Link IE Controller Network module	RJ71GP21-SX	
CC-Link IE Field Network module	RJ71GF11-T2	
	RJ72GF15-T2	September 2017 or later
CC-Link module	RJ61BT11	February 2015 or later
Serial communication module	RJ71C24, RJ71C24-R2, RJ71C24-R4	
Extended SRAM cassette	NZ2MC-1MBS, NZ2MC-2MBS, NZ2MC-4MBS, NZ2MC-8MBS	February 2015 or later
	NZ2MC-16MBS, NZ2MC-8MBSE	September 2017 or later
Extension cable	RC06B, RC12B, RC30B, RC50B	February 2015 or later

*1 The position to display the indication required by the standard of ANSI/ISA-12.12.01 will be changed from a separate sticker to the rating plate of the products manufactured on and after May 2022. (The R33B has no sticker.)

Changes in the front part of a module (MELSEC-Q series only)





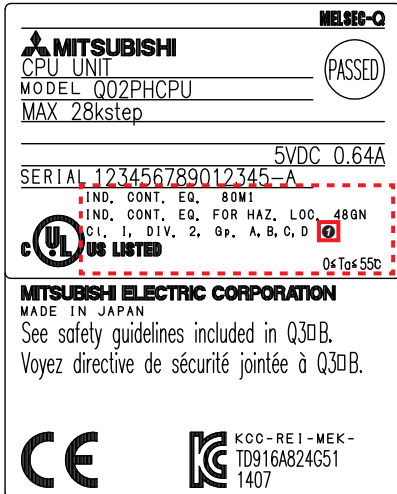









Module	Model
Process CPU	Q02PHCPU, Q06PHCPU, Q12PHCPU, Q25PHCPU
Redundant CPU	Q12PRHCPU, Q25PRHCPU
MELSECNET/H remote I/O module	QJ72LP25-25
C Controller module	Q12DCCPU-V

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5 Change details

This section describes change details with examples.

5.1 Rating plate (MELSEC-Q series)



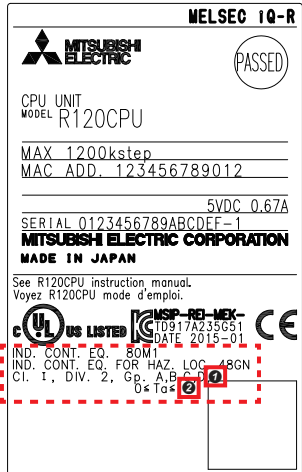

Before change (Example: Process CPU)	After change (Example: Process CPU)
 <p>MELSEC-Q</p> <p>MITSUBISHI CPU UNIT PASSED</p> <p>MODEL Q02PHCPU MAX 28kstep</p> <p>5VDC 0.64A</p> <p>SERIAL 123456789012345-A</p> <p> 80M1 IND. CONT. EQ. US LISTED</p> <p>MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN See safety guidelines included in Q3□B. Voyez directive de sécurité jointée à Q3□B.</p> <p>  KCC-REI-MEK- TD916A824G51 1407</p>	<p>• March 2019 or earlier</p>  <p>MELSEC-Q</p> <p>MITSUBISHI CPU UNIT PASSED</p> <p>MODEL Q02PHCPU MAX 28kstep</p> <p>5VDC 0.64A</p> <p>SERIAL 123456789012345-A</p> <p>IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN Cl. I, DIV. 2, Gp. A, B, C, D 1</p> <p> US LISTED 0 ≤ Ta ≤ 55°C</p> <p>MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN See safety guidelines included in Q3□B. Voyez directive de sécurité jointée à Q3□B.</p> <p>  KCC-REI-MEK- TD916A824G51 1407</p> <p>Descriptions after change: IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN Cl. I, DIV. 2, Gp. A, B, C, D 1 0 ≤ Ta ≤ 55°C</p> <p>• April 2019 or later</p>  <p>MELSEC-Q</p> <p>MITSUBISHI ELECTRIC PASSED</p> <p>CPU UNIT MODEL Q02PHCPU MAX 28kstep</p> <p>5VDC 0.64A</p> <p>SERIAL 123456789012345-A</p> <p>MITSUBISHI ELECTRIC CORPORATION TOKYO 100-8310, JAPAN MADE IN JAPAN</p> <p>See safety guidelines included in Q3□B. Voyez directive de sécurité jointée à Q3□B.</p> <p>IND. CONT. EQ. 80M1 ALSO LISTED IND. CONT. EQ. FOR HAZ. LOC. 48GN Cl. I, DIV. 2, Gp. A, B, C, D</p> <p> US LISTED 0 ≤ Ta ≤ 55°C</p> <p>   KCC-REI-MEK- TD916A824G51 1904</p> <p></p> <p>The words in the frame are added.</p>

Temperature class (T4 or T4A) is marked in the position of 1.

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5.2 Rating plate (MELSEC iQ-R series)

Modules and extended SRAM cassette

Before change (Example: Programmable controller CPU)	After change (Example: Programmable controller CPU)	
	<p>• August 2017 or earlier</p>  <p>Descriptions after change:</p> <p>IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN Cl. I, DIV. 2, Gp. A, B, C, D ① $0 \leq T_a \leq 55^\circ\text{C}$</p> <p>• September 2017 or later</p>  <p>Descriptions after change:</p> <p>IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN Cl. I, DIV. 2, Gp. A, B, C, D ① $0 \leq T_a \leq ②$</p>	<p>• April 2019 or later</p>  <p>The words in the frame are added.</p>

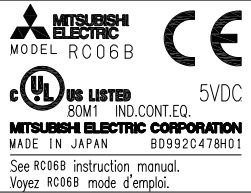
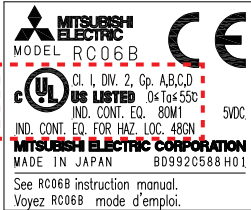
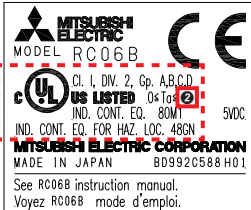

For I/O combined module, a temperature class (T4A) is marked in the position of ①.

(No temperature class is marked for other modules.)

The operating ambient temperature is marked in the position of ②. For the rating plate in September 2017 or later, the temperature marked on the rating plate differs depending on models. (Page 8 Operating ambient temperature)

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Extension cable

Before change	After change
	<ul style="list-style-type: none"> • August 2017 or earlier <div style="text-align: center;">  </div> <p>Descriptions after change:</p> <p style="text-align: center;">Cl. I, DIV. 2, Gp. A, B, C, D 0 ≤ Ta ≤ 55°C</p> <p style="text-align: center;">IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN</p> <ul style="list-style-type: none"> • September 2017 or later <div style="text-align: center;">  </div> <p>Descriptions after change:</p> <p style="text-align: center;">Cl. I, DIV. 2, Gp. A, B, C, D 0 ≤ Ta ≤ ②</p> <p style="text-align: center;">IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 48GN</p> <ul style="list-style-type: none"> • April 2019 or later <div style="text-align: center;">  </div> <p>The words in the frame are added.</p>

The operating ambient temperature is marked in the position of ②. For the rating plate in September 2017 or later, the temperature marked on the rating plate differs depending on models. (☞ Page 8 Operating ambient temperature)

Operating ambient temperature

The temperature is marked in the position of ②.

■ Models marked with 55°C

Module	Model
Programmable controller CPU	R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, R120ENCPU
Main base unit	R310RB, R312B, R38B, R35B
Extension base unit	R610RB, R612B, R68B, R65B
RQ extension base unit	RQ612B, RQ68B, RQ65B

■ Models marked with 60°C

Modules other than above

5.3 Changes in the front part of a module (MELSEC-Q series only)

Process CPU and Redundant CPU

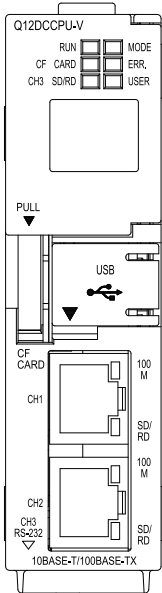
Before change (Example: Process CPU)	After change (Example: Process CPU)
<p>Q02PHCPU</p> <p>MODE RUN ERR. USER BAT. BOOT</p> <p>PULL</p> <p>USB</p> <p>RS-232</p>	<p>Q02PHCPU</p> <p>MODE RUN ERR. USER BAT. BOOT</p> <p>PULL</p> <p>USB</p> <p>RS-232</p>

MELSECNET/H remote I/O module

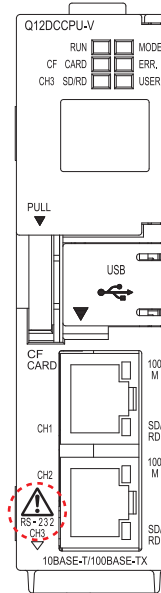
Before change	After change
<p>QJ72LP25-25</p> <p>RUN REM. T. PASS D. LINK SD RD ERR. L. ERR.</p> <p>RS-232</p> <p>IN</p> <p>RESET</p> <p>MODE</p> <p>OUT</p> <p>QJ72LP25-25</p>	<p>QJ72LP25-25</p> <p>RUN REM. T. PASS D. LINK SD RD ERR. L. ERR.</p> <p>RS-232</p> <p>IN</p> <p>RESET</p> <p>MODE</p> <p>OUT</p> <p>QJ72LP25-25</p>

C Controller module

Before change



After change



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REVISIONS

Version	Date of Issue	Revision
—	September 2014	First edition
A	February 2015	Additions of MELSEC iQ-R series
B	February 2016	Additions of models that will be changed in January 2016 or later
C	October 2017	Additions of models that will be changed in September 2017 or later
D	March 2018	Available for e-Manual Viewer
E	April 2019	Additions of rating plates that will be changed in April 2019 or later
F	May 2022	Additions of models that will be changed in June 2022 or later