

TECHNICAL BULLETIN

[Issue No.] FA-A-0092-A

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[Title] Compliance with EN61131-2:2007

[Date of Issue] June 2010 (Ver. A: October 2010)

[Relevant Models] MELSEC-Q series, CC-Link modules, CC-Link/LT modules

Thank you for your continued support of Mitsubishi programmable controllers, MELSEC series.

The EN61131-2 standard has been updated and the values have been changed from the previous version as shown in the table below. After July 31, 2010, the products must comply with the updated version of the standard, EN61131-2:2007. Please pay attention to the precautions in this document when using MELSEC-Q series programmable controllers, CC-Link modules and CC-Link/LT modules.

Table 1 Added or changed test items in EN61131-2:2007

Test item	Details	Remarks
Radiated, radio-frequency, electromagnetic field immunity	The following condition is added. 2.0 to 2.7GHz: 1Vm	-
Fast transient burst immunity	I/O power The test voltage is changed from 1kV to 2kV.	When an AC-DC power is used, apply voltage on the AC side.
Surge immunity	AC power The test specifications are changed.	-
	DC power The test specifications are changed. The test voltage is changed from 1kV CM to 0.5kV CM.	-
	The test voltage for signal lines (unshielded) is changed. Data communication port: from no test to 1kV Analog or DC I/O port: from 0.5kV CM/DM to 1kV CM.	-
Conducted RF immunity	I/O power The test voltage is changed from 3V to 10V.	-
Voltage dips and interruption immunity	Main power The following conditions are added. 0%, 250/300 period (5 seconds) 40%, 10/12 period (0.2 seconds) 70%, 25/30 period (0.5 seconds)	-

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(1) MELSEC-Q series programmable controllers

(a) Use a CE-marked AC-DC power supply as an external power supply for the following modules. Install the AC-DC power supply in the control panel where the module is installed. Keep the length of the power cable connected to the external power supply terminal to 30m (98.43 feet) or less.

- Analog-digital converter module
- Digital-analog converter module
- Analog I/O module
- Load cell input module
- Temperature input module
- Temperature control module
- Loop control module
- Pulse input module
- High-speed counter module
- Positioning module

(b) Use a CE-marked AC-DC power supply as an external power supply for the QJ71LP21S-25.

(c) Use a CE-marked AC-DC power supply as an external power supply for the QJ71E71-B5, QJ71FL71-B5, and QJ71FL71-B5-F01. A power line connecting to the external power supply terminal must be 3m (9.84 feet) or less.

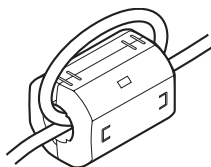
(d) Use the QJ71AS92 in Zone A defined in EN61131-2.

(2) CC-Link modules

(a) Install a noise filter to the external power supply. Use the noise filter having an attenuation characteristic, MA1206 (TDK-Lambda) or equivalent. Note that a noise filter is not required if the module is used in Zone A defined in EN61131-2.

(b) Install a ferrite core (two turns as shown below) on the line connected to the module power supply terminal of the AJ65SBT-RPS, AJ65SBT-RPG, and AJ65BT-68TD.

Use the ferrite core having an attenuation characteristic, ZCAT3035-1330 (TDK) or equivalent.



(c) Install the module power supplies for the AJ65BT-64RD3, AJ65BT-64RD4, and AJ65BT-68TD in the same control panel with each module.

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(3) CC-Link/LT modules

- (a) Use the modules in Zone A*¹ defined in EN61131-2. For the categories of the following products, refer to the manual came with each product.

• CL1Y4-R1B1 • CL1Y4-R1B2 • CL1XY4-DR1B2 • CL1XY8-DR1B2 • CL1PSU-2A

- (b) To supply the CL2DA2-B and CL2AD4-B with power using the CL1PAD1, keep the length of the power cable connected from the CL1PAD1 to the external power supply to 30m or less.

*1 Zone defines categories according to industrial environment, specified in the EMC and Low Voltage Directives, EN61131-2.

Zone C: Factory mains (isolated from public mains by dedicated transformer)

Zone B: Dedicated power distribution, secondary surge protection (rated voltage: 300V or less)

Zone A: Local power distribution, protected from dedicated power distribution by AC/DC converter and insulation transformer (rated voltage: 120V or less)

REVISIONS

Version	Print Date	Revision
-	June 2010	First edition
A	October 2010	Two models, QJ71FL71-B5 and QJ71FL71-B5-F01, are added to the description of (1) (c). Two models, AJ65SBT-RPG and AJ65BT-68TD, are added to the description of (2) (b). (3) is added.