

MELSEC System Q

Programmable Controllers

Installation Manual for Temperature Acquisition Modules Q64RD, Q64RD-G, Q64RD3-G, Q64TD, Q64TDV-GH, Q64TD-G-H01 and Q64TD-G-H03

MR-PS-002MPL-PLC-001-001

Safety Information

For qualified staff only

This manual is intended for use by properly trained and qualified personnel who are fully acquainted with automation technology safety standards. All work with the hardware described, including system design, installation, wiring, maintenance, service and testing, may only be performed by trained electrical technicians with approved qualifications who are fully acquainted with the applicable automation technology safety standards and regulations.

Proper use of equipment

The programming instructions (PLC) of the MELSEC System Q are intended for the specific applications explicitly described in this manual or the manual listed below. Please take care to observe all the installation and operating parameters specified in this manual. All products are designed, manufactured, tested and distributed in accordance with the safety regulations. The installation of the hardware or software or misoperation of the safety warnings given in this manual or printed on the product will cause damage to persons or damage to equipment or other property. Only approved accessories can be used as accessories or substitutes. This may be used for any other use or application of the products is deemed to be improper.

Relevant safety regulations

All safety and accident prevention regulations relevant to your specific application must be observed in the system design, installation, wiring, maintenance, servicing and testing of these products.

In this manual, special warnings that are important for the proper and safe use of the products are clearly identified as follows:



WARNING

Personal fault and injury warnings.
Failure to observe the precautions described here can result in serious fault and injury incidents.



CAUTION

Equipment and property damage warnings.
Failure to observe the precautions described here can result in serious damage to the equipment or other property.

Further information

The following manuals contain further information about the modules:

- Hardware manuals for the MELSEC System Q
- Manuals for the modules described in this installation manual

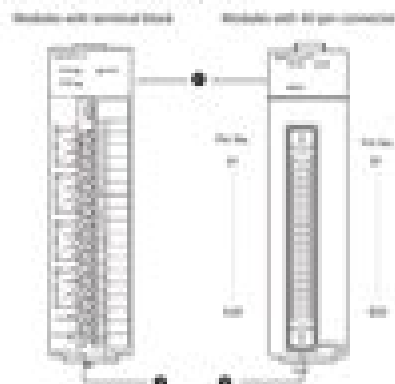
These manuals are available free of charge through the internet from melsec.mitsubishielectric.com.

If you have any questions concerning the installation, configuration or operation of the equipment described in this manual, please contact your relevant sales office or distributor.

Overview

Module	No. of input channels	Connectable temperature sensors
Q64RD	4	Resistance Thermometers PT100
Q64RD-G	4	
Q64RD3-G	8	PT100 (4x100)
Q64TD	4	
Q64TDV-GH	4	Thermocouples (Types E, J, K, L, N, R, S, T, and U)
Q64TD-G-H01	8	
Q64TD-G-H03	8	

Names and Functions of Parts



No.	Description								
1	<table border="1"> <tr> <th>No.</th><th>Description</th></tr> <tr> <td>100</td><td>Indicates the operating status of the module. On: Operating normally Flash: Off-normal wiring mode Off: 1 bit power off - Warning error when occurrence module change enabled status during entire module change</td></tr> <tr> <td>101</td><td>Indicates the error status of the module. On: An error has been occurred. Flash: (Watchdog timer "Watchdog") is set. All bit output stops. It is output power function module switch off may of the I/O Connector. Off: Operating normally</td></tr> <tr> <td>102</td><td>Indicates the alarm status (Q64RD3, Q64TD3-G, and Q64TD3-G-H01 only). On: An alarm has been occurred. Flash: Input signal fault occurred. Off: Operating normally</td></tr> </table>	No.	Description	100	Indicates the operating status of the module. On: Operating normally Flash: Off-normal wiring mode Off: 1 bit power off - Warning error when occurrence module change enabled status during entire module change	101	Indicates the error status of the module. On: An error has been occurred. Flash: (Watchdog timer "Watchdog") is set. All bit output stops. It is output power function module switch off may of the I/O Connector. Off: Operating normally	102	Indicates the alarm status (Q64RD3, Q64TD3-G, and Q64TD3-G-H01 only). On: An alarm has been occurred. Flash: Input signal fault occurred. Off: Operating normally
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102	Indicates the alarm status (Q64RD3, Q64TD3-G, and Q64TD3-G-H01 only). On: An alarm has been occurred. Flash: Input signal fault occurred. Off: Operating normally								
2	Terminal Block								
3	Used for wiring of the sensors (thermistors (Q64RD, Q64RD-G) or the thermocouples and cold-point temperature-compensated type PT100 (Q64RD3-G, Q64TD3-G))								
4	40-pin connector. Required for connection of the input signals in the Q64TD3-G, Q64TD3-G-H01 and Q64TD3-G-H03								

The assignment of the connector

Sensors 1				Sensors 2 and 3, Sensors 4 and 5			
Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
10	A1	30	B1	40	CH1A	50	CH1B
11	A2	31	B2	41	—	51	—
12	—	32	B3	42	CH2A	52	CH2B
13	A3	33	B3	43	—	53	—
14	—	34	B4	44	CH3A	54	CH3B
15	A4	35	B5	45	—	55	—
16	A4	36	B6	46	CH4A	56	CH4B
17	A4	37	—	47	CH5A	57	CH5B
18	—	38	B8	48	—	58	—
19	A4	39	B9	49	CH6A	59	CH6B
20	—	40	—	50	CH6B	60	—
21	A4	41	B1	61	CH7A	71	CH7B
22	—	42	—	62	—	72	—
23	A4	43	B2	63	CH8A	73	CH8B
24	—	44	—	64	—	74	—
25	A4	45	B3	65	CH9A	75	CH9B
26	—	46	—	66	—	76	—
27	A4	47	B4	67	CH10A	77	CH10B
28	—	48	—	68	—	78	—
29	A4	49	B5	69	CH11A	79	CH11B
30	—	50	—	70	CH11B	80	—

Installation and Wiring



WARNING

- Turn off all phases of the power supply for the PLC and other external devices before starting the installation or wiring work.



CAUTION

- Use the product in the environment within the general specifications described in the Hardware Manual for the MELSEC System Q. These are the maximum in terms of heat, dust, only certified semiconductor items, or use in the maximum gas, vibration or impact, or exposure to high temperature combinations or wind and rain.
- When drilling screw holes or wiring, cutting steps or other steps should not enter resistance etc. This may cause a short circuit. Use the provided screw punch always to carry the connection point. Always maintain this distance from the PLC's connection point when the connection work is completed to prevent overloading.

Tighten the screws of the module using torque within the following ranges. Excess torque may cause them to rotate, mechanical failure or malfunction.

Module	Torque
Module mounting screws (M3, optional)	0.35 to 0.40 Nm
Terminal block screws (M3)	0.40 to 0.50 Nm
Terminal block mounting screws (M3.5)	0.40 to 0.50 Nm
Connector screws (M3.5)	0.20 to 0.25 Nm

Mounting a module to a base unit



CAUTION

- Do not open or modify a module. Doing so can result in failure, dust emission, injury or fire.
- Always insert the module facing back of the base unit into the module facing back of the base unit. Fitting the back into the hole will damage the module connector and module.
- Do not touch the conductive or aluminum parts of a module directly. Doing so can cause a short malfunction or failure.



- After switching off the power supply, insert the module facing back into the module facing back of the base unit.



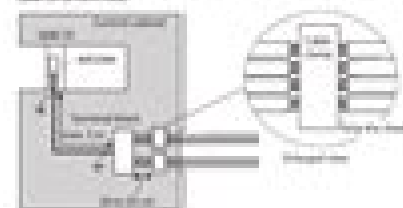
- Push the module in the direction of arrow to insert it into the base unit.

- Insert the module with an additional screw (M3 or L2) to the base unit if large vibration is expected. This screw is not supplied with the module.

Wiring

Please observe the following precautions for external wiring.

- Use shielded cables for the input signals. For connection of the thermocouples in the Q64TD, Q64TDV-GH and Q64TD3-G-H01, use precision conductors must be used. Connect the shield of the cables to the module case. Modules depending on the external noise conditions external wiring on the equipment panel side may be not recommended.
- The separation cables for the AC control and the external input signals or the temperature acquisition modules to avoid the influence of AC side surges and vibrations.
- Always place the signal cables at least 100mm away from the main power cables, high voltage and low voltage. Furthermore, keep the signal lines away from cables which include harmonics, such as air transfer cable, etc.
- Insulation covered wiring terminals cannot be used with the terminal block. It is recommended to use multi-hole or insulation holes in the wire connection part of the wiring terminals.
- Use shielded cables for all external wiring and ground them to the unit and connect with a cable clamp to connect with the EEC and Low Voltage line. Always, before is an example for the Q64RD3-G and Q64TD3-G-H01.



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