

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-000409-01, Version 3.0 (2013.03)

Safety Information

For qualified staff only

This manual is only 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 only 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 documented in accordance with the safety regulations. The installation of the hardware is subject to the responsibility of the safety engineering team in the plant or person on the product and those responsible for safety in the equipment or other company. Only approved components can be used in accordance with the applicable safety standards. Any other use or application of the products is deemed to be improper.

Relevant safety regulations

All safety and technical protection 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

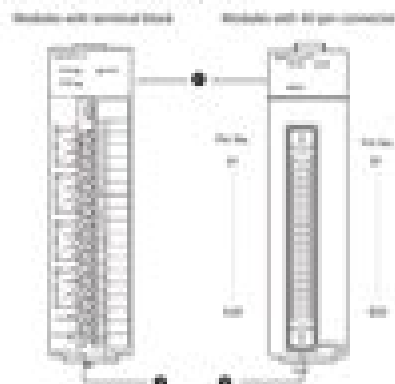
These manuals are available free of charge through the internet from melrock.mitsubishi-automation.com.

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	Resistive Temperature Detectors PT100
Q64RD3-G	4	
Q64TD	4	Thermocouples (Types E, J, K, L, N, R, S, and T)
Q64TDV-GH	4	
Q64TD-G-H01	4	
Q64TD-G-H03	4	

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 alarm mode Off: 1 bit power off - Monitoring error when occurrence module change enabled status during warm 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 to 40 ms after 100 is on, input power failure module switch off may occur (H01/H03 only). Off: Operating normally</td></tr> <tr> <td>102</td><td>Indicates the alarm status (Q64RD3-G, Q64TDV-GH, Q64TD-G-H01/H03 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 alarm mode Off: 1 bit power off - Monitoring error when occurrence module change enabled status during warm module change	101	Indicates the error status of the module. On: An error has been occurred. Flash: (Watchdog timer "Watchdog") is set to 40 ms after 100 is on, input power failure module switch off may occur (H01/H03 only). Off: Operating normally	102	Indicates the alarm status (Q64RD3-G, Q64TDV-GH, Q64TD-G-H01/H03 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-G, Q64TDV-GH, Q64TD-G-H01/H03 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 (thermocouples (Q64TD, Q64TDV-GH) or the thermocouples and cold-pointed temperature-compensated type PT100 (Q64RD, Q64RD3-G)).								
4	40-pin connector. Required for connection of the input signals in the Q64TD3-G, Q64TDV-GH01 and Q64TDV-GH03.								

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	CH1	50	CH2
11	A2	31	B2	41	—	51	—
12	—	32	B3	42	CH3	52	CH4
13	A3	33	B3	43	—	53	—
14	—	34	B4	44	CH4	54	CH5
15	A4	35	B5	45	—	55	—
16	A4	36	B6	46	CH5	56	CH6
17	—	37	—	47	—	57	—
18	A5	38	B7	48	CH6	58	CH7
19	—	39	—	49	—	59	—
20	A6	40	B8	50	CH7	60	CH8
21	—	41	—	51	—	61	—
22	A7	42	B9	52	CH8	62	CH9
23	—	43	—	53	—	63	—
24	A8	44	B10	54	CH9	64	CH10
25	—	45	—	55	—	65	—
26	A9	46	B11	56	CH10	66	CH11
27	—	47	—	57	—	67	—
28	A10	48	B12	58	CH11	68	CH12
29	—	49	—	59	—	69	—
30	A11	50	B13	60	CH12	70	CH13
31	—	51	—	61	—	71	—

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 voltage or electromagnetic ray, ultraviolet or infrared ray, or exposure to high temperature, combinations or wind and rain.
- When drilling screw holes or wiring, cutting steps or other steps should not enter sensitive sites. This may cause a short circuit. Use the provided screw punch always to secure the connection point. Always maintain this distance from the PLC's sensitive part 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 crack, the mechanical features to 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 a 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 electronic 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.



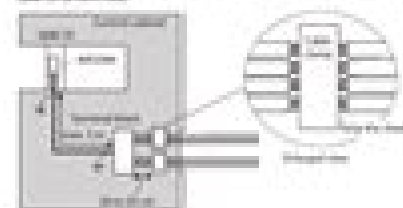
- Push the module in the direction of arrow to snap it into the base unit.

- Secure 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 Q64TD-G-H01/H03, use precision conductors must be used. Connect the shield of the cables to the shield side of the module depending on the external noise conditions. External wiring on the input/output connector side may be disconnected.
- The separation cables for the AC control and the external input signals of the temperature acquisition modules to avoid the influence of AC side surges and induction.
- Always place the signal cables at least 100 mm away from the main circuit cables, high voltage and power cables. Furthermore, keep the signal lines away from cables which include harmonics, such as air conditioner circuit cable.
- 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 control cabinet with a cable clamp or connect with the EMC and Low Voltage Protection. Always, before is an example for the Q64RD3-G and Q64TD3-G-H01/H03.



Melsec Q Training Manual

L Reisser



Melsec Q Training Manual:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Melsec Q Training Manual**

In a global inundated with displays and the cacophony of instant transmission, the profound energy and psychological resonance of verbal beauty frequently diminish into obscurity, eclipsed by the constant barrage of sound and distractions. Yet, located within the lyrical pages of **Melsec Q Training Manual**, a captivating function of literary splendor that pulses with organic thoughts, lies an memorable journey waiting to be embarked upon. Written with a virtuoso wordsmith, this mesmerizing opus books visitors on a psychological odyssey, delicately exposing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is central themes, dissect its charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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