

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 the equipment or other company. This manual is not intended for use in any application where the product is used in a way that may affect the safety of the product or the safety of the equipment.

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

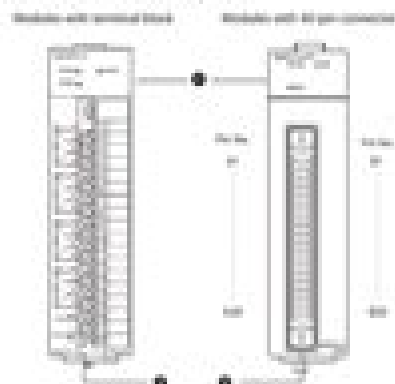
These manuals are available free of charge through the internet from melrock.mitsubishielectric.com.

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	Resistive thermometers PT100
Q64RD-G	4	
Q64RD3-G	8	Thermocouples (Types S, E, J, K, N, R, T, EAC/TC)
Q64TD	4	
Q64TDV-GH	4	
Q64TD-G-H01	8	
Q64TD-G-H03	8	

Names and Functions of Parts



No.	Description										
1	<table border="1"> <tr> <td>LED</td><td>Indicates the operating status of the module. Flash: Operating normally Glow: Off/abnormal wiring mode OFF: 1 bit power off - Monitoring error when occurrence module change enabled status during online module change</td></tr> <tr> <td>Power LED</td><td> <table border="1"> <tr> <td>ON</td><td>Indicates the error status of the module. ON: An error has been occurred. Flash: (Watchdog error "Watchdog") is set. All I/O will stop. Stop E to supply power function module switch off may occur (H01/Change).</td></tr> <tr> <td>OFF</td><td>Operating normally.</td></tr> </table> </td></tr> <tr> <td>ALM</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>	LED	Indicates the operating status of the module. Flash: Operating normally Glow: Off/abnormal wiring mode OFF: 1 bit power off - Monitoring error when occurrence module change enabled status during online module change	Power LED	<table border="1"> <tr> <td>ON</td><td>Indicates the error status of the module. ON: An error has been occurred. Flash: (Watchdog error "Watchdog") is set. All I/O will stop. Stop E to supply power function module switch off may occur (H01/Change).</td></tr> <tr> <td>OFF</td><td>Operating normally.</td></tr> </table>	ON	Indicates the error status of the module. ON: An error has been occurred. Flash: (Watchdog error "Watchdog") is set. All I/O will stop. Stop E to supply power function module switch off may occur (H01/Change).	OFF	Operating normally.	ALM	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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OFF	Operating normally.										
ALM	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 (thermocouples (Q64TD, Q64TDV-GH) or the thermometers and cold-point temperature-compensated type PT100 (Q64RD, Q64RD3-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
1	+	2	-	1	+	2	-
3	+	4	-	3	+	4	-
5	+	6	-	5	+	6	-
7	+	8	-	7	+	8	-
9	+	10	-	9	+	10	-
11	+	12	-	11	+	12	-
13	+	14	-	13	+	14	-
15	+	16	-	15	+	16	-
17	+	18	-	17	+	18	-
19	+	20	-	19	+	20	-
21	+	22	-	21	+	22	-
23	+	24	-	23	+	24	-
25	+	26	-	25	+	26	-
27	+	28	-	27	+	28	-
29	+	30	-	29	+	30	-
31	+	32	-	31	+	32	-
33	+	34	-	33	+	34	-
35	+	36	-	35	+	36	-
37	+	38	-	37	+	38	-
39	+	40	-	39	+	40	-
41	+	42	-	41	+	42	-
43	+	44	-	43	+	44	-
45	+	46	-	45	+	46	-
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51	+	52	-	51	+	52	-
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57	+	58	-	57	+	58	-
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61	+	62	-	61	+	62	-
63	+	64	-	63	+	64	-
65	+	66	-	65	+	66	-
67	+	68	-	67	+	68	-
69	+	70	-	69	+	70	-
71	+	72	-	71	+	72	-
73	+	74	-	73	+	74	-
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85	+	86	-	85	+	86	-
87	+	88	-	87	+	88	-
89	+	90	-	89	+	90	-
91	+	92	-	91	+	92	-
93	+	94	-	93	+	94	-
95	+	96	-	95	+	96	-
97	+	98	-	97	+	98	-
99	+	100	-	99	+	100	-

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 conditions or wind and rain.
- When drilling screw holes or wiring, cutting steps or other steps should not enter the module slot. This may cause a short circuit. Use the provided screwdriver to insert the screws into the slots. Do not use a screwdriver that is not specified in the manual.

Tighten the screws of the module using torque within the following ranges. Excess torque may cause them to crack. Do not use a torque wrench.

Module	Torque
Module mounting screws (M3, optional)	0.5 to 0.6 N·m
Terminal block screws (M3)	0.4 to 0.5 N·m
Terminal block mounting screws (M3.5)	0.6 to 0.8 N·m
Connector screws (M3.5)	0.5 to 0.6 N·m

Mounting a module to a base unit



CAUTION

- Do not open or modify a module. Doing so can result in failure, and therefore, 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 slot 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 circuit or failure.



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



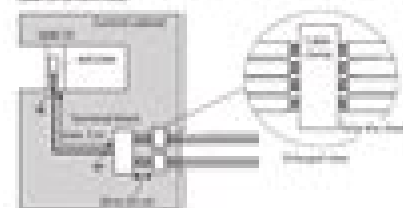
- Push the module in the direction of arrow to insert it into the base unit.

- 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 shielded cables. Do not use the shield of the cables on the module side. Therefore, depending on the external noise conditions, abnormal wiring on the input signals can cause the module to malfunction.
- Use separate cables for the AC control and the external input signals of the temperature acquisition modules to avoid the influence of AC side surges and vibrations.
- Always place the signal cables at least 100 mm away from the main power cables, high voltage and high current. Furthermore, keep the signal lines away from cables which include harmonics, such as air conditioner 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 control cabinet with a cable clamp or connect with the EAC and Low Voltage Protection. Always, before is an example for the Q64RD3-G and Q64TD3-G-H01.



Melsec Q Training Manual

Christian G. Meyer



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