TECHNICAL BULLETIN

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[Title] Transition to made-to-order production and production discontinuation
        (Type Q64TCTT/Q64TCRT/Q64TCTTBW/Q64TCRTBW temperature control modules)
[Date of Issue] May 2012
[Relevant Models] Q64TCTT, Q64TCRT, Q64TCTTBW, Q64TCRTBW

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

MELSEC-Q series temperature control modules Q64TCTTN, Q64TCRTN, Q64TCTTBWN, and Q64TCRTBWN were released in August 2011 as the replacement models of the Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW. The Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW will be made to order, then discontinued.

1. Models made-to-order/to be discontinued

Type Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW temperature control modules will be made to order and discontinued.
(For details, refer to "4. Models made-to-order/to be discontinued and replacement models".)

2. Schedule

- Transition to made-to-order production: **April 1, 2013**
- Order acceptance: Until **August 31, 2013**
- Last day of production: **September 30, 2013**

3. Delivery date

Please purchase the product ahead of time.
For details of the delivery date, please contact your local Mitsubishi sales office or representative.

4. Models made-to-order/to be discontinued and replacement models

Product name	Model made-to-order/ to be discontinued	Replacement model
Temperature control module	Q64TCTT	Q64TCTTN
	Q64TCRT	Q64TCRTN
Temperature control module with the disconnection detection function	Q64TCTTBW	Q64TCTTBWN
	Q64TCRTBW	Q64TCRTBWN

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5. Specification comparison of the existing models and replacement models

No problem is accompanied by the differences in the specifications upon replacement.

(1) Temperature control module

Item		Q64TCTT/Q64TCRT	Q64TCTTN/Q64TCRTN
PID constant range	Integral time (I)	1s to 3600s	0s to 3600s
Number of writes to the E^2PROM/number of access to the non-volatile memory		Up to 100,000 times	Up to 10^{12} times
Internal current consumption		0.55A	0.29A
Conformity standard	Ship standard	Conformed	Planned to be obtained in September 2012

(2) Temperature control module with the disconnection detection function

Item		Q64TCTTBW/Q64TCRTBW	Q64TCTTBWN/Q64TCRTBWN
PID constant range	Integral time (I)	1s to 3600s	0s to 3600s
Number of writes to the E^2PROM/number of access to the non-volatile memory		Up to 100,000 times	Up to 10^{12} times
Heater disconnection detection specifications	Current sensor	• CTL-6-P-H • CTL-6-P • CTL-12-S36-8	• CTL-6-P-H • CTL-6-P • CTL-12-S36-8 • CTL-12-S36-10 • CTL-12-S56-10
Internal current consumption		0.64A	0.33A
Conformity standard	Ship standard	Conformed	Planned to be obtained in September 2012

MITSUBISHI ELECTRIC CORPORATION

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6. Functional comparison of the existing models and replacement models

No problem is accompanied by the differences in the functions upon replacement.

Item	Q64TCTT/Q64TCRT/ Q64TCTTBW/Q64TCRTBW	Q64TCTTN/Q64TCRTN/ Q64TCTTBWN/Q64TCRTBWN
Setting change rate limiter setting function	The batch setting for the temperature rise and drop can be configured.	Whether to configure the batch setting or individual setting for the temperature rise and drop can be selected.
Alert function	A set value (SV) referred to for the deviation alert is the current value.	Whether a set value (SV) referred to for the deviation alert should be the current value or setting value can be selected.
Sensor correction function	Setting the correction offset value can correct a deviation.	Setting two points (the correction offset value and correction gain value) can correct a deviation.

7. Precautions for when replacing modules

(1) When using a sequence program

Because the Q64TCTTN, Q64TCRTN, Q64TCTTBWN, and Q64TCRTBWN are backward compatible with the Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW, the sequence program in use can be used. Note, however, that the names of some buffer memory areas have been changed and that the setting ranges have been extended in accordance with extended functions.

For details, refer to "Appendix 1 Comparison of the Q64TCN with the Q64TCTT, Q64TCTTBW, Q64TCRT, and Q64TCRTBW" in the MELSEC-Q Temperature Control Module User's Manual (SH-080989ENG).

(2) When using GX Works2

The Q64TCTTN, Q64TCRTN, Q64TCTTBWN, and Q64TCRTBWN can be used with GX Works2 with Version 1.62Q or later. GX Works2 with the version earlier than Version 1.62Q cannot be used; therefore, upgrade GX Works2.

(3) When using GX Configurator-TC

When using the Q64TCTTN, Q64TCRTN, Q64TCTTBWN, or Q64TCRTBWN with GX Configurator-TC, select the Q64TCTT, Q64TCRT, Q64TCTTBW, or Q64TCRTBW for the model name. The modules can be used in the same manner as the Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW.

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(4) When using a spring clamp terminal block
A Q6TE-18S spring clamp terminal block that is used for the Q64TCRT and Q64TCRTBW cannot be used for the Q64TCRTN and Q64TCRTBWN. Use a Q6TE-18SN spring clamp terminal block.

A terminal block that is used for the Q64TCTT, Q64TCRT, Q64TCTTBW, and Q64TCRTBW can be used for the Q64TCTTN, Q64TCRTN, Q64TCTTBWN, and Q64TCRTBWN. Terminal blocks can be replaced with being connected to the modules.

8. Repair acceptance
Repair acceptance: Until September 30, 2020 (for 7 years after production discontinuation)