

APTER POWER ENGINEERING REFERENCE

MC-TAMT04

Low-Level Multiplexer Thermocouple FTA

The MC-TAMT04 is a 16-channel low-level multiplexer thermocouple FTA that terminates sensor millivolt signals and supplies the reference-junction interface used by TPS temperature processing.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TAMT04
Part number	51305890-175
System family	TPS Process Manager I/O
Document	Installation & Application Guide
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One verified model, one engineered configuration path.

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SCAN FOR PRODUCT & QUOTE

MC-TAMT04

2. Installation Planning

The MC-TAMT04 is a 16-channel low-level multiplexer thermocouple FTA that terminates sensor millivolt signals and supplies the reference-junction interface used by TPS temperature processing.

Pre-installation sequence

- Use thermocouple extension wire matching the installed sensor type.
- Maintain polarity from sensor to compression terminal.
- Protect the termination area from cabinet temperature gradients.
- Validate cold-junction response with a stable reference source.

Matched components

- LLMux I/O processor
- LLMux power adapter
- Matched thermocouple extension wire
- Size-B FTA mounting hardware

3. Wiring and Interface Checks

Installation item	Required technical value
FTA type	LLMux thermocouple
Model	MC-TAMT04
Part number	51305890-175
Terminal type	Compression
Channels	16
Mounting size	B
Compliance	CE
Thermocouple types	J; K; E; T; B; S; R; Japan R
Voltage input	0 to 100 mV
CMRR	120 dB minimum

Interface controls

- Use only the MC-TAMT04 hardware identity and the matched components listed for this product.
- Record wiring, polarity, addressing or channel allocation before disturbing installed conductors.
- Keep field circuits de-energized until continuity and insulation checks are complete.
- Apply the product-specific limits in the table during loop or channel testing.

4. Commissioning and Functional Test

- 1 Confirm that MC-TAMT04 and part number 51305890-175 match the cabinet record.
- 2 Verify the connection to LLMux I/O processor before applying operating power.
- 3 Check the product function: terminates low-level thermocouple signals.
- 4 Simulate or apply a controlled signal for furnace-zone temperature monitoring.
- 5 Compare the channel indication or output state with the control database.
- 6 Record baseline values and restore the field circuit to its operating configuration.

5. Diagnostics and Return to Service

Product-specific diagnostic questions

How should an engineer verify thermocouple type selection on MC-TAMT04?

Use the MC-TAMT04 technical limit or configuration stated for thermocouple type selection, then verify it at the installed channel before service.

What must be checked for reference-junction accuracy on MC-TAMT04?

Treat reference-junction accuracy as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls 0-100 mV input on MC-TAMT04?

The required check concerns 0-100 mV input; confirm the connected hardware is the matched component listed for MC-TAMT04.

Why is it important to confirm polarity preservation on MC-TAMT04?

For polarity preservation, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model MC-TAMT04, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.