

APTER POWER ENGINEERING REFERENCE

MC-TAMR04

Low-Level Multiplexer RTD FTA

The MC-TAMR04 is a 16-channel low-level multiplexer RTD FTA that terminates three-wire resistance sensors and forwards compensated temperature measurements to the Honeywell LLMux chain.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TAMR04
Part number	51305907-175
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-TAMR04

2. Installation Planning

The MC-TAMR04 is a 16-channel low-level multiplexer RTD FTA that terminates three-wire resistance sensors and forwards compensated temperature measurements to the Honeywell LLMux chain.

Pre-installation sequence

- Land all three conductors according to the RTD channel diagram.
- Keep the three lead resistances closely matched.
- Do not combine thermocouple and RTD terminal practices.
- Check resistance at the FTA before enabling channel linearization.

Matched components

- LLMux RTD processor
- LLMux power adapter
- Three-wire RTD sensors
- Shielded low-level instrumentation cable

3. Wiring and Interface Checks

Installation item	Required technical value
FTA type	LLMux RTD
Model	MC-TAMR04
Part number	51305907-175
Terminal type	Compression
Channels	16
Mounting size	B
Compliance	CE
RTD wiring	3-wire
RTD types	Pt100 DIN; Pt100 JIS; Ni120; Cu10
Maximum lead resistance	15 Ohm

Interface controls

- Use only the MC-TAMR04 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-TAMR04 and part number 51305907-175 match the cabinet record.
- 2 Verify the connection to LLMux RTD processor before applying operating power.
- 3 Check the product function: terminates three-wire resistance-temperature sensors.
- 4 Simulate or apply a controlled signal for motor winding 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 three-wire compensation on MC-TAMR04?

Use the MC-TAMR04 technical limit or configuration stated for three-wire compensation, then verify it at the installed channel before service.

What must be checked for 15-ohm lead limit on MC-TAMR04?

Treat 15-ohm lead limit as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls Pt100 DIN versus JIS on MC-TAMR04?

The required check concerns Pt100 DIN versus JIS; confirm the connected hardware is the matched component listed for MC-TAMR04.

Why is it important to confirm Ni120 selection on MC-TAMR04?

For Ni120 selection, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model MC-TAMR04, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.