

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	Product Technical Reference
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

1. Product Identity and System Role

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.

System role

- Terminates three-wire resistance-temperature sensors
- Routes multiplexed resistance measurements to TPS
- Supports lead-resistance compensation through the three-wire circuit
- Concentrates sixteen temperature points at one field interface

Matched components

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

2. Technical Specifications

Parameter	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
CMRR	120 dB at 10 Ohm; 110 dB at 100 Ohm
NMRR	60 dB
Country	USA
HS code	8537101190

3. Functions, Applications and Components

Core functions

- Terminates three-wire resistance-temperature sensors
- Routes multiplexed resistance measurements to TPS
- Supports lead-resistance compensation through the three-wire circuit
- Concentrates sixteen temperature points at one field interface

Industrial applications

- Motor winding temperature monitoring
- Bearing metal RTD measurement
- Process-vessel temperature arrays
- Heat-exchanger inlet and outlet sensing

Compatible system components

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

4. Engineering Precautions and Source

Product precautions

- 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.

Manufacturer source

Honeywell Experion Control Hardware Planning Guide; TPS Process Manager I/O Specification
R301.1; IO03-684

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.