

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	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-TAMT04

1. Product Identity and System Role

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.

System role

- Terminates low-level thermocouple signals
- Provides the field interface for multiplexed temperature acquisition
- Handles reference-junction measurement at the termination point
- Routes millivolt signals to the LLMux processor chain

Matched components

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

2. Technical Specifications

Parameter	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
NMRR	60 dB minimum
Reference-junction accuracy	+/-1 C at 23.5 +/-2 C
Country	USA
HS code	8537101190

3. Functions, Applications and Components

Core functions

- Terminates low-level thermocouple signals
- Provides the field interface for multiplexed temperature acquisition
- Handles reference-junction measurement at the termination point
- Routes millivolt signals to the LLMux processor chain

Industrial applications

- Furnace-zone temperature monitoring
- Reactor multipoint thermocouples
- Kiln and heat-treatment measurement
- Turbine exhaust-temperature arrays

Compatible system components

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

4. Engineering Precautions and Source

Product precautions

- 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.

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