

INDUSTRIAL AUTOMATION PRODUCT

MU-TSIM12

Serial Interface Field Termination Assembly

Honeywell MU-TSIM12 is a Modbus serial-interface FTA that connects EIA-232 or EIA-485 devices to the TPS serial interface processor.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	TPS Process Manager I/O
Part number	51303932-401
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Electrical interfaces	EIA-232; EIA-485
Protocol	Modbus RTU
FTAs per interface	2
Devices per FTA	15 maximum
Points per channel	16
Baud rates	1200; 2400; 4800; 9600; 19200 bit/s
Parity	None; odd; even
Stop bits	1
EIA-232 distance	15 m maximum
EIA-485 distance	1.2 km maximum

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System Role and Architecture

Honeywell MU-TSIM12 is a Modbus serial-interface FTA that connects EIA-232 or EIA-485 devices to the TPS serial interface processor.

FUNCTION 1

Terminates serial field links

FUNCTION 2

Supports EIA-232 point-to-point wiring

FUNCTION 3

Supports EIA-485 multidrop wiring

FUNCTION 4

Maps Modbus RTU data to TPS channels

Matched system components

- TPS serial-interface processor
- Serial-interface power adapter
- Shielded serial cable
- Modbus RTU slave devices

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Applications and Engineering Context

PLC-to-TPS data exchange

Terminates serial field links

Variable-speed drive integration

Supports EIA-232 point-to-point wiring

Analyzer serial communications

Supports EIA-485 multidrop wiring

Packaged skid Modbus links

Maps Modbus RTU data to TPS channels

TECHNICAL NOTE

Set baud rate, parity, device address and EIA-485 termination consistently before enabling Modbus write functions.

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Engineering Precautions

1

Verify the complete MU-TSIM12 marking and its assigned TPS Process Manager I/O position before work.

2

Isolate the applicable power and field energy before disconnecting MU-TSIM12.

3

Protect MU-TSIM12 connectors and electronic assemblies with approved ESD controls.

4

Record the installed wiring, channel assignment and configuration before replacement.

5

Match TPS serial-interface processor and Serial-interface power adapter to the documented system arrangement.

6

Commission MU-TSIM12 with controlled status, signal and diagnostic checks.

7

Retain the final plc-to-tps data exchange functional-test result in the maintenance record.

MANUFACTURER SOURCE RECORD

Honeywell TPS Process Manager I/O Specification

IO03-684 Rev.2

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