

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.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TPS Process Manager I/O

PART

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PRODUCT OVERVIEW

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

1

Terminates serial field links

2

Supports EIA-232 point-to-point wiring

3

Supports EIA-485 multidrop wiring

4

Maps Modbus RTU data to TPS channels

SYSTEM COMPONENTS

TPS serial-interface processor

Serial-interface power adapter

Shielded serial cable

Modbus RTU slave devices

TECHNICAL DATA

PARAMETER	VALUE
Electrical interfaces	EIA-232; EIA-485
Protocol	Modbus RTU
FTAs per interface	2
Devices per FTA	15 maximum
Points per channel	16

PARAMETER	VALUE
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

TECHNICAL NOTE

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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.

ENGINEER FAQ

Q1 Does MU-TSIM12 match TPS serial-interface processor in a PLC-to-TPS data exchange installation?

Verify the complete MU-TSIM12 marking, the documented TPS Process Manager I/O position and the installed TPS serial-interface processor before fitting the assembly.

Q2 How should MU-TSIM12 be wired when it must terminates serial field links?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for MU-TSIM12; then continuity-test the affected path.

Q3 Which TPS Process Manager I/O records should be captured before removing MU-TSIM12?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with MU-TSIM12 before disconnection.

Q4 What controlled test confirms that MU-TSIM12 can supports eia-232 point-to-point wiring?

Apply the approved field or simulated stimulus, observe the TPS Process Manager I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Serial-interface power adapter condition should be checked when MU-TSIM12 reports an abnormal state?

Check the Serial-interface power adapter supply, seating and connection first, then compare channel diagnostics with the recorded MU-TSIM12 baseline.

Q6 Can MU-TSIM12 be moved directly into Variable-speed drive integration without validating Modbus RTU slave devices?

No. Confirm the Modbus RTU slave devices, revision, connection scheme and TPS Process Manager I/O configuration before transferring MU-TSIM12 to that duty.

Q7 What maintenance evidence is required after MU-TSIM12 is used for Analyzer serial communications?

Retain the nameplate record, corrective action, final diagnostics and a controlled analyzer serial communications functional-test result for MU-TSIM12.

Q8 How should MU-TSIM12 be returned to service in Packaged skid Modbus links?

Restore power under control, verify supports eia-485 multidrop wiring, exercise the intended signal path and release MU-TSIM12 only after the TPS Process Manager I/O remains in its approved operating state.

SOURCE Honeywell TPS Process Manager I/O Specification | IO03-684 Rev.2

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