

MU-TSIM12

Serial Interface Field Termination Assembly

CONTROLLED ENGINEERING COPY

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



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MU-TSIM12

01 PRE-INSTALLATION PLAN

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.

MATCHED HARDWARE

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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD NOTE

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

03 COMMISSIONING WORKFLOW

1

Confirm MU-TSIM12 and part number 51303932-401 against the installed record.

2

Verify the physical connection to TPS serial-interface processor.

3

Apply the documented technical values for electrical interfaces.

4

Exercise the function: terminates serial field links.

5

Run a controlled test for plc-to-tps data exchange.

6

Record the final state, diagnostics and operator acceptance before release.

04 RETURN-TO-SERVICE RECORD

- ☐
- Commission MU-TSIM12 with controlled status, signal and diagnostic checks.
- ☐
- Retain the final plc-to-tps data exchange functional-test result in the maintenance record.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN	
DATE	
CABINET / POSITION	
FINAL DIAGNOSTIC STATE	

SOURCE IDENTIFIERS

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

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