

APTER POWER ENGINEERING REFERENCE

MC-TSIM12

Serial Interface Field Termination Assembly

The MC-TSIM12 is the TPS field termination assembly that connects Modbus RTU devices to the serial-interface processor for process-data acquisition and command exchange.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TSIM12
Part number	51303932-476
System family	TPS Process Manager I/O
Document	Installation & Application Guide
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-TSIM12

2. Installation Planning

The MC-TSIM12 is the TPS field termination assembly that connects Modbus RTU devices to the serial-interface processor for process-data acquisition and command exchange.

Pre-installation sequence

- Use one physical-layer standard consistently on each link.
- Terminate and bias EIA-485 trunks at the engineered locations.
- Match baud, parity and register addressing before enabling writes.
- Prove read-only polling before commissioning command functions.

Matched components

- TPS serial-interface processor
- Serial-interface power adapter
- Shielded EIA-232 or EIA-485 cable
- Modbus RTU slave devices

3. Wiring and Interface Checks

Installation item	Required technical value
FTA model	MC-TSIM12
Part number	51303932-476
Electrical interfaces	EIA-232; EIA-485
Protocol	Modbus RTU
FTAs per serial interface	2
Devices per FTA	15 maximum
Points per serial channel	16
Data format	8 data bits; programmable ninth bit
Baud rates	1200; 2400; 4800; 9600; 19200 bit/s
Parity	None; odd; even

Interface controls

- Use only the MC-TSIM12 hardware identity and the matched components listed for this product.
- Record wiring, polarity, addressing or channel allocation before disturbing installed conductors.
- Keep field circuits de-energized until continuity and insulation checks are complete.
- Apply the product-specific limits in the table during loop or channel testing.

4. Commissioning and Functional Test

- 1 Confirm that MC-TSIM12 and part number 51303932-476 match the cabinet record.
- 2 Verify the connection to TPS serial-interface processor before applying operating power.
- 3 Check the product function: terminates serial links from intelligent package equipment.
- 4 Simulate or apply a controlled signal for plc and skid-package integration.
- 5 Compare the channel indication or output state with the control database.
- 6 Record baseline values and restore the field circuit to its operating configuration.

5. Diagnostics and Return to Service

Product-specific diagnostic questions

How should an engineer verify EIA-232 distance on MC-TSIM12?

Use the MC-TSIM12 technical limit or configuration stated for EIA-232 distance, then verify it at the installed channel before service.

What must be checked for EIA-485 multidrop count on MC-TSIM12?

Treat EIA-485 multidrop count as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls 1.2 km trunk on MC-TSIM12?

The required check concerns 1.2 km trunk; confirm the connected hardware is the matched component listed for MC-TSIM12.

Why is it important to confirm supported baud set on MC-TSIM12?

For supported baud set, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model MC-TSIM12, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.