

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	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-TSIM12

1. Product Identity and System Role

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.

System role

- Terminates serial links from intelligent package equipment
- Presents Modbus registers to TPS control strategies
- Provides selectable point-to-point or multidrop physical layers
- Separates field serial wiring from the serial-interface processor

Matched components

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

2. Technical Specifications

Parameter	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
Stop bits	1
EIA-232 distance	15 m maximum
EIA-485 distance	1.2 km maximum
Modbus function codes	01; 02; 03; 04; 05; 06; 08; 16
Country	USA

3. Functions, Applications and Components

Core functions

- Terminates serial links from intelligent package equipment
- Presents Modbus registers to TPS control strategies
- Provides selectable point-to-point or multidrop physical layers
- Separates field serial wiring from the serial-interface processor

Industrial applications

- PLC and skid-package integration
- Variable-speed drive data exchange
- Analyzer and weigh-scale links
- Boiler and burner-package communications

Compatible system components

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

4. Engineering Precautions and Source

Product precautions

- 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.

Manufacturer source

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

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.