MU-TSDM02

Manual/Auto Station Serial Device Interface FTA

Honeywell MU-TSDM02 is a Manual/Auto Station Serial Device Interface FTA. It connects station data to a TPS SDI processor over an isolated EIA-485 multidrop channel.

PRODUCT SNAPSHOT

BRAND	Honeywell
FAMILY	TPS Process Manager I/O
PART	51303932-277
ORIGIN / HS	USA / 8537101190

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PRODUCT OVERVIEW

Honeywell MU-TSDM02 is a Manual/Auto Station Serial Device Interface FTA. It connects station data to a TPS SDI processor over an isolated EIA-485 multidrop channel.

1. Interfaces manual/auto stations
2. Uses a galvanically isolated serial channel
3. Supports EIA-485 multidrop communication
4. Maps station data into the SDI processor

SYSTEM COMPONENTS

- MU-PSDX02 SDI processor
- Manual/auto stations
- Shielded EIA-485 cable
- Serial interface power arrangement

TECHNICAL DATA

PARAMETER	VALUE
Serial channel	1 galvanically isolated
Interface	EIA-485 multidrop
Points per FTA	1 to 8

PARAMETER	VALUE
Points per processor	1 to 16
Common-mode withstand	250 Vac rms; +/-250 Vdc
Dielectric strength	1500 Vac rms; +/-1500 Vdc

TECHNICAL NOTE

Maintain EIA-485 polarity, shielding and end-of-line termination, then verify every station address and bidirectional data transfer.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Operator manual/auto stations

Interfaces manual/auto stations

Local setpoint panels

Uses a galvanically isolated serial channel

Packaged-unit operator controls

Supports EIA-485 multidrop communication

Legacy station communication repair

Maps station data into the SDI processor

PRODUCT PRECAUTIONS

1. Verify the complete MU-TSDM02 marking and the assigned TPS Process Manager I/O position before field work.
2. Isolate the applicable power, network and field energy before disconnecting MU-TSDM02.
3. Use ESD controls and protect the keyed connectors of MU-TSDM02 during handling.
4. Record the installed wiring, jumpers, node or channel assignment before replacement.
5. Confirm MU-PSDX02 SDI processor and Manual/auto stations against the approved system configuration.
6. Restore MU-TSDM02 under controlled conditions and review the product-specific diagnostics.
7. Complete a functional test for operator manual/auto stations before production release.

ENGINEER FAQ

Q1 **Which MU-PSDX02 SDI processor identity must be verified before fitting the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA?**

Match the complete MU-TSDM02 marking, assigned TPS Process Manager I/O position and installed MU-PSDX02 SDI processor before work.

Q2 **How should Manual/auto stations be isolated before disconnecting the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA?**

Place the affected process in its approved maintenance state, isolate applicable energy and prove Manual/auto stations safe before disconnection.

Q3 **What as-found wiring record is required for the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA in Operator manual/auto stations?**

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for MU-TSDM02.

Q4 **Which TPS Process Manager I/O configuration must be checked when commissioning the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA?**

Verify the assigned channel, slot, node or interface and compare it with the approved TPS Process Manager I/O configuration before enabling MU-TSDM02.

Q5 **How can the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA be function-tested for Local setpoint panels without disturbing the process?**

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 **Which diagnostics should be reviewed if the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA stops performing its assigned system function?**

Check seating, the matched MU-PSDX02 SDI processor, the condition of Manual/auto stations and the model-specific diagnostics before replacing more hardware.

Q7 **Can the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA used for Packaged-unit operator controls be transferred to another TPS Process Manager I/O position without engineering review?**

No. Confirm the hardware execution, connector scheme and approved TPS Process Manager I/O configuration before transferring MU-TSDM02 to a different duty.

Q8 **What evidence should be retained after the MU-TSDM02 Manual/Auto Station Serial Device Interface FTA returns to Legacy station communication repair service?**

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for MU-TSDM02.

SOURCE Honeywell TPS Process Manager I/O Specification | IO03-684 Rev.2 section 6.12

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