MU-TAMT03 51309223-125

Thermocouple Multiplexer Field Termination Assembly

Honeywell MU-TAMT03 51309223-125 is the nonconformally coated LLMux thermocouple termination assembly with a local cold-junction reference interface.

Job scope and identity

Complete reference	MU-TAMT03 51309223-125
Manufacturer	Honeywell
Acquisition path	Thermocouples > local-reference FTA > LLMux power adapter > MU-PLAM02 IOP
Technical source	Honeywell HPM Planning, March 1998, LLMux configuration and placement

Field decisions

Reference placement

MU-TAMT03 uses local CJR. The remote CJR arrangement belongs to MU-TAMT13.

Relay position

Install the mercury-wetted relay assembly with the power-connector side up.

Enclosure grounding

The FTA mounting channel and enclosure require their documented safety-ground connections.

Pre-installation readiness

Capture thermocouple polarity

Label each input pair and its channel before removing field wiring.

Preserve local CJR

Identify and protect the installed cold-junction reference connection.

Keep the power connector upward

Record the relay orientation and restore the FTA upright.

Use the FTA mounting channel

Verify the grounded mounting channel inside the shielded enclosure.

Check enclosure environment

Confirm that a remote box satisfies the system environmental requirements.

Prove temperature indication

Compare representative thermocouple channels and the local reference after reconnection.

Installation and commissioning relationships

Local CJR temperature groups	Use the local-reference interface for the installed thermocouple group.
Mixed temperature FTA pairs	Pair the thermocouple FTA with an approved RTD or thermocouple FTA through the documented adapter.
Remote termination cabinets	Mount the assembly in its approved grounded enclosure within the cable limit.
Legacy LLMux maintenance	Restore the thermocouple group while preserving daughterboard, relay orientation and reference identity.

Engineering values for acceptance

Thermocouple input group	16 channels
Cold-junction reference interfaces	1 local interface
FTAs per documented adapter configuration	2
Combined LLMux input capacity	32 channels
Maximum FTA-to-adapter cable	305 m
Maximum adapter-to-IOP cable	50 m
Local FTA cable connector	4 or 6 pins

Diagnostics and escalation

Can MU-TAMT03 51309223-125 share an adapter with an RTD FTA?	The LLMux configuration permits two FTAs of the same or different types. Preserve each group assignment and confirm the RTD and thermocouple configurations independently.
What should be inspected if several MU-TAMT03 51309223-125 readings shift together?	Review the common reference connection, FTA identity and adapter-side cable under the approved service procedure. Compare multiple channels before attributing the shift to individual thermocouples.
Why is a grounded enclosure required around MU-TAMT03 51309223-125?	The LLMux FTA is sensitive to interference and is designed for a shielded enclosure. Confirm the FTA mounting channel, enclosure and safety-ground connections against the approved drawing.
What distinguishes the coated alternative from MU-TAMT03 51309223-125?	The corresponding MC-TAMT03 51309223-175 is conformally coated. Check the complete assembly identity and environmental basis rather than approving a replacement from the common thermocouple function alone.

Handover and evidence package

Retain the local cold-junction reference, thermocouple daughterboard, nonconformally coated execution and upright mounting. A remote-reference MU-TAMT13 requires a different reference arrangement.

Verify MU-TAMT03 and 51309223-125 on the assembly and retain the complete revision marking. Check the thermocouple daughterboard and local-reference interface.

Inspect field terminals, reference connection, relays, motherboard and daughterboard mounting. Obtain a photograph showing the power-connector side and installed orientation.

Related Honeywell product references

Review the complete assembly identity and installed-system application for each reference.

Honeywell MU-PLAM02 51304362-100

Honeywell MU-TAMR03 51309218-125

Engineering contact

Discuss the exact marking and installed temperature-input architecture with Apter Power.
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Technical basis

Honeywell HPM Planning, March 1998, LLMux configuration and placement