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.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	MU-TAMT03 51309223-125
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	12.1cm x 5cm x 30.8cm
Country of Origin	USA
Weight	0.76 kg
Manufacturer	Honeywell
Product Category	DCS Systems

Buyer information - Overview

The MU-TAMT03 execution uses local cold-junction reference. MU-TAMT13 is the remote-reference alternative, and MC-TAMT03 51309223-175 is the conformally coated execution. Preserve the exact reference arrangement during replacement.

Local reference compensation: The thermocouple junction arrangement remains at the termination assembly.

Grouped temperature scanning: The FTA presents a complete thermocouple group to the LLMux acquisition chain.

Defined relay orientation: Upright mounting preserves the operating position of mercury-wetted contacts.

MU-TAMT03 combines the LLMux motherboard and thermocouple daughterboard to acquire 16 low-level temperature inputs. The selected local cold-junction reference differs from the remote CJR connection of MU-TAMT13, so the two assemblies require different reference-wiring reviews.

The FTA communicates with MU-PLAM02 through MU-TLPA02. Two compatible FTAs may be connected to the adapter, including a mixed RTD and thermocouple installation. The LLMux components are incompatible with RHMUX assemblies despite their similar multiplexer role.

Mercury-wetted relay contacts require mounting with the power-connector side up. Use the approved grounded FTA mounting channel inside a shielded cabinet or NEMA 12 box. The remote FTA enclosure and its environment must satisfy the system installation conditions.

Controller platform reference: Honeywell LLMux thermocouple acquisition. Confirm the installed reference wiring.

Technical specifications

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

Applications / Compatibility

Thermocouple field conductors terminate at the local-reference LLMux FTA before acquisition by the multiplexer processor. Preserve sensor polarity and the installed reference arrangement.

The assembly supports the documented LLMux chain through its power adapter. Temperature-channel assignments, cable shielding and enclosure grounding form part of the installed configuration.

Local CJR temperature groups	***Mixed temperature FTA pairs***
Use the local-reference interface for the installed thermocouple group.	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.

Product Precautions

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.

Lifecycle Status

The current factory phase of MU-TAMT03 51309223-125 is unconfirmed. Its installed-base role is local-reference thermocouple termination in the Process Manager family LLMux system.

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

Supply covers the termination assembly. The LLMux processor, adapter, interconnection cables and temperature sensors are separate items unless listed in the offer.

Available Unit Details

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.

Included assembly - one MU-TAMT03 51309223-125 thermocouple termination assembly

Technical notes

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.

Alternative Names

Honeywell MU-TAMT03 51309223-125

MU TAMT03 51309223-125

Frequently Asked Questions (FAQ)

Why does the local reference matter when exchanging MU-TAMT03 51309223-125?	Thermocouple conversion depends on cold-junction compensation. Preserve the local reference interface and verify representative temperatures after restoring the termination group.
Can MU-TAMT13 replace MU-TAMT03 51309223-125 without reference-wiring changes?	The two versions use different CJR arrangements. MU-TAMT13 supports a remote reference, so compare the complete reference circuit and approved configuration before considering the change.
Which orientation is required for MU-TAMT03 51309223-125?	The power-connector side must face upward because the assembly contains mercury-wetted relay contacts. Photograph the mounting position before removal and check it after installation.
How should channel polarity be restored on MU-TAMT03 51309223-125?	Keep each thermocouple pair associated with its recorded channel and polarity. Compare representative temperature indications with a known plant reference before returning the group to service.
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.

Downloads

Honeywell LLMux Thermocouple Configuration Excerpt	Original manufacturer pages covering local CJR, assembly identity, relay orientation and enclosure requirements.
MU-TAMT03 51309223-125 Thermocouple Installation Guide	Local reference preservation, channel polarity, upright mounting and temperature-group acceptance.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include MU-TAMT03 51309223-125 and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered MU-TAMT03 51309223-125 with the installed equipment and applicable Honeywell documentation.

Related Honeywell product references

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

- Honeywell MU-TDID12 51304441-125

Engineering contact

Discuss the exact marking and installed temperature-input architecture with Apter Power. sales13@apterpower.com | +86 18030235313

Technical basis

Honeywell HPM Planning, March 1998, LLMux configuration and placement