MU-TAMR03 51309218-125

RTD Multiplexer Field Termination Assembly

Honeywell MU-TAMR03 51309218-125 is the nonconformally coated LLMux RTD termination assembly with 16 inputs and compression terminals.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	MU-TAMR03 51309218-125
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	12.1cm x 5cm x 30.8cm
Country of Origin	USA
Weight	0.78 kg
Manufacturer	Honeywell
Product Category	DCS Systems

Buyer information - Overview

This assembly terminates RTDs in the LLMux chain; thermocouple FTAs and their cold-junction-reference arrangements serve a different sensor function.

Resistance-sensor termination: The FTA preserves the RTD input function within the temperature multiplexer chain.

Mixed-group integration: RTD and thermocouple groups can share the documented adapter architecture.

Orientation-controlled service: Relay position and grounded mounting are retained during replacement.

The RTD motherboard and daughterboard combination distinguishes this FTA from the thermocouple MU-TAMT03 and MU-TAMT13 assemblies. Preserve the resistance-sensor function when comparing visually similar low-level multiplexer termination hardware.

Each RTD FTA communicates through the LLMux power adapter. Two FTAs can be the same or different sensor types, so an RTD group can share an adapter with an approved thermocouple group while retaining separate assignments.

Mount the relay assembly with its power-connector side up in the approved shielded and grounded enclosure. The 185 mA value is an assembly entry in the 24 V DC cabinet-planning table and must not be interpreted as RTD excitation current.

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

Technical specifications

RTD input channels	16
Assembly planning supply basis	24 V DC
Assembly planning current	185 mA
FTAs per documented adapter	2
Combined LLMux group	32 channels
Maximum FTA-to-adapter run	305 m
Terminal type	Compression
Documented RTD connection	3 wire, with the applicable LLMux processor
Pt100 DIN conversion range	-200 to +850 ■C, matched RTD chain
Pt100 JIS conversion range	-200 to +650 ■C, matched RTD chain
Ni120 conversion range	-45 to +315 ■C, matched RTD chain
Cu10 conversion range	-20 to +250 ■C, matched RTD chain
Maximum RTD lead resistance	15 ohm, documented matched chain

Applications / Compatibility

Installed signal relationship for MU-TAMR03 51309218-125: Resistance temperature sensors > MU-TAMR03 RTD FTA > MU-TLPA02 adapter > MU-PLAM02 processor.

Keep the power-connector side up for the mercury-wetted relay arrangement.

RTD field groups
Terminate resistance-temperature sensor circuits in the documented LLMux system.

Mixed temperature cabinets
Preserve independent RTD and thermocouple group assignments on a shared adapter.

Remote RTD enclosure
Use the approved cable route, grounded mounting channel and shielded enclosure.

Temperature maintenance
Validate representative RTD readings after reconstructing the terminal map.

Product Precautions

Identify the RTD daughterboard
Match the actual sensor function before approving an FTA.

Capture sensor lead assignments
Record the installed RTD conductor arrangement from the wiring drawing.

Maintain upright orientation
Retain the power-connector-side-up mounting position.

Inspect the enclosure ground
Check the mounting channel and enclosure safety-ground connections.

Separate power and sensor current
Use assembly planning current only for its stated budget purpose.

Compare resistance-based readings
Verify representative RTD channels against accepted plant references.

Lifecycle Status

The current factory phase for MU-TAMR03 51309218-125 is unconfirmed.

Keep the resistance-sensor termination and installed LLMux adapter relationship intact. A thermocouple daughterboard changes the measurement function even when the motherboard arrangement looks similar.

Supply covers one rtd multiplexer field termination assembly. The connected field devices, termination or processor hardware, cables and cabinet items require separate itemization.

Available Unit Details

MU-TAMR03 51309218-125: Match the actual sensor function before approving an FTA.

Obtain photographs of the RTD identification, compression terminals and daughterboard assembly. Inspect terminal damage, corrosion and the offered nonconformally coated board condition.

Included assembly - one MU-TAMR03 51309218-125 assembly

Technical notes

Sensor function	The RTD daughterboard is distinct from the thermocouple local or remote CJR versions.
Planning-current boundary	185 mA is the FTA assembly planning allowance, with no RTD excitation claim implied.
Installed orientation	Keep the power-connector side up for the mercury-wetted relay arrangement.

Alternative Names

Honeywell MU-TAMR03 51309218-125

51309218-125 MU-TAMR03

Frequently Asked Questions (FAQ)

Can a thermocouple FTA serve as a direct replacement for MU-TAMR03 51309218-125?	The motherboard and daughterboard combination determines sensor function. Verify the RTD assembly identity because thermocouple versions use different input and reference arrangements.
Does the 185 mA figure describe RTD excitation in MU-TAMR03 51309218-125?	It is the assembly-current entry in the 24 V DC planning table. Retain the installed sensor specification for any excitation or resistance-measurement assessment.
What mounting position must be preserved for MU-TAMR03 51309218-125?	The power-connector side faces upward for the mercury-wetted relays. Record the mounting direction and inspect it after assembly replacement.
How should the RTD conductor map be captured before removing MU-TAMR03 51309218-125?	Label each sensor conductor and terminal according to the approved drawing. Preserve the original sensor lead configuration rather than assuming another RTD wiring arrangement.
Can MU-TAMR03 51309218-125 share the adapter with a thermocouple group?	The documented two-FTA arrangement permits mixed types. Verify the group assignments independently and compare readings on each sensor group.
What should be inspected when several channels of MU-TAMR03 51309218-125 drift together?	Review shared FTA connections, adapter cable and enclosure grounding with the approved diagnostic procedure. Compare multiple known sensor references before replacing individual RTDs.
Why does the remote enclosure matter for MU-TAMR03 51309218-125?	The FTA requires electromagnetic shielding, a grounded mounting channel and appropriate environment. Check those conditions at the actual remote location.
How should the coated alternative be distinguished from MU-TAMR03 51309218-125?	MC-TAMR03 51309218-175 is the coated execution. Match the complete part marking and environmental basis before considering it.

Downloads

Honeywell MU-TAMR03 51309218-125 Technical Planning Excerpt	Original manufacturer assembly-identification and applicable planning pages.
MU-TAMR03 51309218-125 Engineering Field Guide	Identify the RTD daughterboard, Capture sensor lead assignments, Maintain upright orientation.

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-TAMR03 51309218-125 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-TAMR03 51309218-125 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 application with Apter Power. sales13@apterpower.com | +86 18030235313

Technical basis

Honeywell HPM Planning, March 1998; TPS Process Manager I/O Specification and Technical Data IO03-684