MU-TLPA02 51309204-125

Low-Level Multiplexer Power Adapter

Honeywell MU-TLPA02 51309204-125 is the nonconformally coated, CE-compliant power adapter connecting LLMux temperature FTAs to a Process Manager family multiplexer IOP.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	MU-TLPA02 51309204-125
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	15.1cm x 12cm x 5cm
Country of Origin	USA
Weight	0.3 kg
Manufacturer	Honeywell
Product Category	DCS Systems

Buyer information - Overview

The 51309204-125 execution is the nonconformally coated CE-compliant adapter. The coated 51309204-175 execution and the older non-CE 51304467-100 have different assembly identities that must be checked before replacement.

Temperature-chain integration: The adapter links RTD or thermocouple termination assemblies to the LLMux processor.

Mixed input flexibility: Two connected FTAs can serve the same sensor type or combine RTD and thermocouple groups.

Remote field deployment: Separate processor-side and field-side cable limits support distributed temperature acquisition.

The adapter sits between MU-PLAM02 and the MU-TAMR03 or MU-TAMT03/13 termination assemblies. Each FTA supplies 16 low-level analog channels, and the two-FTA configuration provides 32 inputs to the LLMux IOP. LLMux assemblies operate together and are incompatible with RHMUX assemblies.

Processor-to-adapter connections use MU-KFTAxx for internal cabinet routes or shielded MU-KFTSxx for external cabinet routes. The longest processor-side run is limited to 50 m. CE installation additionally requires the specified shielded cable and a CE-compliant card file.

The field-side connection can extend to 305 m using the specified external cable. Local 51304465-xxx cabling uses individually shielded twisted pairs, with grounding at both ends for CE installations. The termination assemblies require their approved grounded enclosure and upright orientation.

Controller platform reference: Honeywell LLMux temperature I/O. Confirm the installed wiring drawing.

Technical specifications

Connected FTAs	2 maximum in the documented configuration
Channels per FTA	16
System input capacity	32 channels with two FTAs
Maximum IOP-to-adapter cable	50 m
Maximum adapter-to-FTA cable	305 m
Adapter-side local cable connector	6 pins
FTA-side local cable connector	4 or 6 pins
Local cable construction	2 individually shielded twisted pairs

Applications / Compatibility

The adapter connects the LLMux IOP to local or remotely enclosed temperature termination assemblies. Match the installed temperature-input architecture before ordering.

Use it with the documented RTD and thermocouple LLMux assemblies. Preserve CE cable, cabinet and grounding conditions where the installation requires compliance.

RTD acquisition

Connect the documented MU-TAMR03 RTD FTA through the adapter to MU-PLAM02.

Thermocouple acquisition

Use MU-TAMT03 for local cold-junction reference or MU-TAMT13 for the documented remote-reference arrangement.

Mixed temperature inputs

One RTD and one thermocouple FTA can share the adapter when their assignments are configured correctly.

Remote FTA installation

Apply the specified external cable and grounded enclosure when the field termination is remote from the processor cabinet.

Product Precautions

Identify the LLMux architecture

Confirm that both termination and processor assemblies are LLMux components before disconnection.

Record every cable destination

Photograph the IOP-side and both FTA-side connections, labels and shield landings.

Check the longest IOP route

Include the complete installed processor-to-adapter cable in the 50 m limit.

Verify field-side reach

Keep the longest adapter-to-FTA connection within 305 m using the specified cable.

Restore CE shielding

For a CE installation, restore the specified shielded cable and both-end grounding of local FTA cables.

Inspect the remote enclosure

Confirm the grounded mounting channel, safety-ground connection and upright FTA installation before returning channels to service.

Lifecycle Status

The current factory lifecycle phase for MU-TLPA02 51309204-125 is unconfirmed. This assembly serves installed Process Manager family low-level temperature multiplexer systems.

Retain the nonconformally coated CE execution, LLMux processor and FTA identities, approved cable types and separate processor-side and field-side distance limits. RHMUX power adapters belong to a different architecture.

The offered item is the adapter assembly. Temperature FTAs, multiplexer IOP, cabinet, mounting channel and interconnecting cables require separate itemization.

Available Unit Details

Confirm both MU-TLPA02 and 51309204-125 on the offered assembly, including its revision and nonconformally coated construction.

Inspect compression terminals, connector bodies, board surfaces and mounting points. Compare all cable destinations with the existing LLMux wiring record.

Included assembly - one MU-TLPA02 51309204-125 adapter assembly

Technical notes

Coating distinction	51309204-125 is the nonconformally coated CE execution. The 51309204-175 assembly is the conformally coated execution.
Two independent distance checks	Apply the 50 m IOP-side limit and 305 m FTA-side limit to their respective cable routes.
CE installation relationship	The adapter identity alone does not establish compliance. Review the card file, cable selection, shielding and enclosure grounding together.

Alternative Names

Honeywell MU-TLPA02 51309204-125

MU TLPA02 51309204-125

Frequently Asked Questions (FAQ)

Can MU-TLPA02 51309204-125 connect to an RHMUX termination assembly?	The documented LLMux assemblies are compatible only with each other. Identify the IOP and FTA labels before approving a replacement because the RHMUX architecture uses different assemblies.
How should CE compliance be reviewed when replacing MU-TLPA02 51309204-125?	Review the adapter execution together with the CE-compliant card file and specified MU-KFTSxx cable. Check shield and safety-ground connections against the approved installation.
Can MU-TLPA02 51309204-125 serve one RTD FTA and one thermocouple FTA?	The two FTAs may be the same or different types. Record which branch serves RTDs and which serves thermocouples, then verify channel configuration and sensor response after reconnection.
Which cable distinction matters at the IOP side of MU-TLPA02 51309204-125?	Internal cabinet routes use MU-KFTAxx, while external routes use shielded MU-KFTSxx. Check the actual cabinet boundary and compliance requirements before selecting a cable.
How does local cable shield grounding change for a CE installation of MU-TLPA02 51309204-125?	For the specified 51304465-xxx local cable, CE applications ground shields at both ends. Non-CE applications ground them at the adapter end only. Record the installation basis before restoring the shield landings.
What should be checked when only one FTA branch fails behind MU-TLPA02 51309204-125?	Compare the failed branch with the working branch using its connector, cable identity, shield landing and FTA configuration. Keep the two channel groups identified and use the approved I/O service procedure before disturbing connections.
Does replacing MU-TLPA02 51309204-125 change the thermocouple cold-junction reference arrangement?	The FTA determines the reference arrangement. MU-TAMT03 uses a local reference and MU-TAMT13 uses the documented remote reference. Preserve that FTA identity and its reference wiring during adapter replacement.
What evidence should close replacement work on MU-TLPA02 51309204-125?	Retain the complete adapter marking, IOP and FTA identities, cable-route lengths and shield connections. Verify representative sensor indications on both connected FTA groups against the accepted plant baseline.

Downloads

Honeywell LLMux Configuration and Placement Excerpt	Original HPM Planning pages covering exact adapter identity, connected assemblies, placement and cable requirements.
MU-TLPA02 51309204-125 Installation and Verification Guide	Cable selection, CE grounding, branch-level diagnosis and temperature-channel 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-TLPA02 51309204-125 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-TLPA02 51309204-125 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