Yokogawa AMM12T S2

Voltage Input Multiplexer Module

01 / SCOPE, BASELINE AND POINT IDENTITY

This guide restores an AMM12T S2 voltage-multiplexer position without borrowing the mV, thermocouple or RTD rules of adjacent modules. The work boundary includes the module, its nest terminals and the configured point definitions.

Capture sixteen point identities → **Protect voltage circuits** → **Restore configuration and readings**

Record the complete tag

Capture AMM12T S2, nest and slot before removal. Keep the style marking as evidence rather than an inferred capability.

Export the point map

Record every used point, configured range, polarity and engineering assignment before changing hardware.

Pre-work baseline

Physical	Module tag, nest position, terminal numbers and M4 conductor locations
Configuration	Per-point signal type, range and any approved parallel arrangement
Electrical	Normal readings, field references and common-mode condition
System	RIO node status and diagnostics before isolation

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Approved process state

Place every affected voltage point in its permitted maintenance state before disconnecting a shared multiplexer module.

Field energy isolation

Control hazardous or externally powered circuits; the system isolation statement does not make every conductor safe to touch.

Point-by-point labeling

Mark conductor position and polarity before loosening M4 terminals. Do not rely on terminal order from a similar module.

ESD and connector care

Handle the module under grounded ESD control and protect the nest connector from contamination or damage.

Electrical limits retained during work

Configured span	-10 to +10 V DC documented input range
Allowable input	-30 to +30 V DC boundary
Common mode	200 V AC allowable value
Nest supply demand	500 mA or less at 5.0 V DC

Stop and resolve

Point type is not voltage	Confirm the installed model; do not continue using AMM12T data.
Parallel circuit is present	Verify burnout is OFF and the drawing permits the connection.
Tag does not confirm S2	Resolve the procurement identity before replacement.

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Remove under control

After the approved isolation, record any remaining diagnostic indication and remove the module without disturbing neighboring nest positions.

Inspect the nest

Check connector condition, retention points and terminal integrity. Resolve contamination, heat damage or mechanical defects before installing replacement hardware.

Seat the exact identity

Install the verified AMM12T S2 module in the recorded nest position. Do not use another multiplexer type as an electrical substitute.

Restore conductors

Reconnect each labeled voltage point to its original M4 terminal with the recorded polarity and field reference.

Restore software definitions

Compare all used point ranges with the saved project. Do not change a range merely to make an unexpected reading appear plausible.

Pre-energization inspection

Confirm secure terminals, no exposed strands, correct module retention, clear nest connector area and a completed point-to-terminal cross-check before restoring node power.

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Check	Acceptance evidence	If not
Module recognition	RIO node recognizes the expected AMM12T position.	Check seating, nest power and exact identity.
Point range	Each used point retains its recorded voltage range.	Restore the approved project definition; do not borrow another point.
Static response	Applied or process voltage agrees with the permitted test and channel reading.	Trace polarity, terminal, field source and configuration separately.
Parallel input	Shared measurement behaves correctly with burnout OFF.	Review loading and remove any undocumented parallel path.
Update behavior	Observed response is consistent with the one-second update period.	Do not diagnose a slow documented cycle as an immediate module failure.
Node release	No unexplained diagnostic remains and all affected points are recorded.	Keep the node under maintenance control.

Interpret errors by layer

A wrong value can originate in the field source, conductor polarity, terminal contact, common-mode condition, point range or module. Preserve evidence from each layer before replacing additional hardware.

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As-left identity	Complete AMM12T S2 tag, nest and slot
Point record	Used points, configured ranges, polarity and terminal map
Electrical evidence	Permitted test values and restored channel readings
Parallel circuits	Documented approval and burnout-OFF confirmation
System evidence	RIO node status and resolved diagnostics
Exceptions	Owner and release restriction for every unresolved item

Technical reference record

Yokogawa I/O Module Nest / I/O Module (for RIO)

GS 33G06K40-01E, September 1, 2009; selected pages 3 and 11.

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

Yokogawa CP451-50 S2 | View Yokogawa CP451-50 S2 page

Yokogawa SB401-11 S1 | View Yokogawa SB401-11 S1 page

Yokogawa ALR121-S00 S1 | View Yokogawa ALR121-S00 S1 page

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Send the exact model, quantity and requested condition for a quotation.

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