Yokogawa AMM12T S2

Voltage Input Multiplexer Module

01 / VOLTAGE MULTIPLEXER ROLE IN CENTUM RIO

Yokogawa AMM12T S2 is the terminal-type member of the AMM12T voltage-input multiplexer design. It acquires as many as sixteen DC-voltage points through a nest-mounted module and passes isolated measurements to the system at a one-second update rate.

Field voltage points → **AMM12T multiplexer** → **RIO system interface**

One module, multiple points

Up to sixteen measuring points share the module. Each point retains its own software-selected signal identity and range.

Voltage-only evidence

The documented AMM12T column is DC voltage. The adjacent mV, thermocouple and RTD columns describe other multiplexer models.

Nest-mounted termination

The module installs in an I/O module nest and uses the nest terminals with M4 screws.

Bounded update speed

The one-second data update period suits slower measurements and must be considered in alarm or control use.

Identity boundary

S2 is retained as the requested complete product identity. Confirm that style marking on the component tag; the general specification used here does not assign additional performance solely from the S2 text.

Yokogawa AMM12T S2

Voltage Input Multiplexer Module

02 / DOCUMENTED VOLTAGE-CHANNEL CHARACTERISTICS

Measurement points	Up to 16
Input signal	DC voltage
Input range	-10 to +10 V DC
Allowable input voltage	-30 to +30 V DC
Input resistance	1 Mohm
Data update period	1 s
Accuracy	+/-4 mV
Temperature effect	+/-8 mV per 10 C or less

Allowable is not operating span

The +/-30 V value is an input withstand boundary, not a configured measurement range.

Accuracy belongs to the voltage column

Do not combine AMM12T accuracy with the mV, thermocouple or RTD figures printed beside it.

Software range assignment

The signal and range are specified by software for each measuring point. A correct physical replacement still requires the project point definitions to agree with the connected field circuits.

Yokogawa AMM12T S2

Voltage Input Multiplexer Module

System isolation	Input signals are isolated from the system.
Common-mode boundary	200 V AC allowable common-mode voltage.
Parallel connection	Permitted when burnout detection is OFF.
Burnout selection	The AMM12T voltage column does not use the thermocouple/RTD burnout choices.
Current demand	500 mA or less from the 5.0 V DC nest supply.

Parallel measurement needs review

A permitted parallel connection still changes loading and fault paths. Confirm the original drawing and the OFF burnout state before reconnecting.

Isolation is not channel-to-channel proof

The source states the field-to-system boundary. Do not add an unsupported channel-to-channel isolation claim.

Common mode is a safety boundary

Assess the installed field circuit and grounding before relying on the documented value.

Nest power is shared

Include the AMM12T current demand in the complete node power and module inventory review.

Yokogawa AMM12T S2

Voltage Input Multiplexer Module

Slow-changing process voltage	The one-second update cycle can suit monitored analog quantities whose dynamics fit that response.
RIO retrofit retention	An existing AMM12T nest position can be restored while retaining channel, terminal and software identities.
Bipolar signal acquisition	The documented input span supports configured values across -10 to +10 V DC.
Parallel observation	Use only with burnout OFF and a verified circuit that permits the shared connection.

Do not substitute neighboring family columns

Family	Role	Why it is not AMM12T evidence
AMM22M	mV input multiplexer	Different signal level and accuracy column
AMM22T / AMM22TJ	Thermocouple multiplexer	Includes thermocouple and RJC requirements
AMM32T / AMM32TJ	RTD multiplexer	Uses measuring current and wiring-resistance rules

Mechanical similarity, a common nest or a shared family table does not establish electrical interchangeability. Match the complete module and point configuration.

Yokogawa AMM12T S2

Voltage Input Multiplexer Module

Technical reference record

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

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

Verified scope

The selected manufacturer pages confirm the AMM12T module family, nest compatibility and the exact voltage-input specification column. S2-specific performance is intentionally not invented.

Related Apter Power catalog references

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

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

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

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

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

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

AMM12T S2