Foxboro AI2 2500M/AI2/XXXXX/XXXXXX

System architecture

The electrical input, terminal hardware and channel interpretation form one measurement chain. A universal input module does not mean that every terminal unit accepts every sensor. Select the physical connection first, then configure the channel for that sensor and range.

Technical data

Parameter	Value
Analog input channels	2
Supported signal classes	TC, RTD, mV, V, mA, resistance, potentiometer
RTD connections	2-wire, 3-wire or 4-wire
High-impedance input location	Channel 2
Thermocouple millivolt span	-150 to +150 mV
Current span with mA terminal unit	-25 to +25 mA
mA terminal burden	5 Ω
Cold-junction sensor	RTD in the TC terminal unit
Maximum module consumption	2 W

Interpret the operating symptom

Observation	Engineering check
Temperature changes in the wrong direction	Inspect thermocouple polarity and the selected linearization before adjusting calibration.
Current reading is incorrect	Check the mA termination and shunt, then compare an injected current with the configured process scale.
Resistance value is unstable	Inspect the lead arrangement and connections; retain the intended two-, three- or four-wire configuration.

Other Foxboro catalogue pages — separate products

Foxboro P0916AG

Foxboro P0903CW