

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / INVENSYS / FOXBORO

Schneider Electric / Invensys / Foxboro P0400YD FBM 03 RTD Input Module

Foxboro P0400YD FBM03 RTD Input Interface Module The Foxboro P0400YD is the I/A Series FBM03 RTD Input Interface Module. It contains eight Resistance Temperature Detector input channels. Each channel accepts either a 2- and 4-wire RTD or a 3-wire RTD within a 0 to 320 ohm resistance range. Within the same module, 3-wire RTDs may not be mixed with 2- or 4-wire RTDs. The module converts RTD electrical inputs to the redundant Fieldbus. It is a main-type module and independently connects to the redundant Fieldbus. The Foxboro P0400YD is the I/A Series FBM03 RTD Input Interface Module. It contains eight Resistance Temperature Detector input channels. Each channel accepts either a 2- and 4-wire RTD or a 3-wire RTD within a 0 to 320 ohm resistance range. Within the same module, 3-wire RTDs may not be mixed with 2- or 4-wire RTDs. The module converts RTD electrical inputs to the redundant Fieldbus. It is a main-type module and independently connects to the redundant Fieldbus. Platinum and nickel RTD temperature measurement in Foxboro I/A Series DCS; process temperature loops in refining, power, and chemicals; replacement of 100 Series FBM03 cards.



MODEL

**Schneider Electric
/ Invensys /
Foxboro P0400YD**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

P0400YD

LISTING

<https://aumictechlabs.com/products/p0400yd-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric/Invensys/Foxboro P0400YD FBM03 is an 8-channel RTD input module engineered for precision temperature acquisition in industrial process control systems. It converts resistance measurements from platinum, nickel, and copper RTD sensors into high-resolution digital signals compatible with the I/A Series control architecture. The module supports 2-wire, 3-wire, and 4-wire sensor configurations across a -200°C to +850°C temperature range, making it suitable for demanding applications in oil and gas, power generation, and chemical processing.

Technical Specifications

Input Characteristics 8 isolated, independent channels
Supports Pt100, 120 Ω nickel, 10 Ω copper, and DIN/SAMA/IEC platinum and nickel standards
Input range: 0 to 320 ohms per channel
Temperature measurement range: -200°C to +850°C (-328°F to +1562°F)
Sensor excitation: 0.75 mA dc
16-bit digital output resolution
Update rate: 10 ms typical
Accuracy and Performance $\pm 0.1\%$ of full scale for RTD input $\pm 0.025\%$ of span (± 0.08 ohms) $\pm 0.25^\circ\text{C}$ accuracy
Temperature coefficient accuracy: ± 25 ppm/ $^\circ\text{C}$
Power and Thermal
Supply voltage: 24 VDC nominal (18 to 32 VDC operating range)
Redundant input voltage: 26 to 42 V dc
Power consumption: 3.5 W typical, 9 W maximum
Heat dissipation: 9 W maximum

Electrical Isolation Channel-to-channel isolation: 1500 V ac
Withstand potential: 600 V ac for one minute between any channel and earth or between channels

Key Features 2-wire, 3-wire, and 4-wire RTD configuration support (note: 3-wire RTDs cannot be mixed with 2-wire or 4-wire within the same module)
Integrated signal conditioning with minimal noise and drift
Software-configurable conversion time
FOXPRO FBM3 Fieldbus communication via redundant fieldbus architecture

Physical Specifications Dimensions: 120 mm (H) $\times$ 75 mm (W) $\times$ 50 mm (D)
Weight: 0.3 to 0.4 kg

Compatibility & Integration Designed for Schneider Electric I/A Series control systems using FOXPRO FBM3 Fieldbus protocol for direct integration into distributed process control architectures.

Features & description

From manufacturer datasheet

Features

- Eight RTD input channels, 0 to 320 ohm
- 2-wire and 4-wire or 3-wire RTD (not mixed on one module)
- 0.75 mA dc excitation (catalog listings)
- Configurable analog input resolution, Fieldbus switching enable, and Fieldbus switching time
- Main-type FBM on redundant Fieldbus
- Suited to Pt100 industrial spans; Pt1000 only if resistance stays within 320 ohm

P0400YD Characteristics / Specifications

PARAMETER	VALUE
Model	P0400YD
Manufacturer	Foxboro (Invensys / Schneider Electric)
Instrument Type	RTD Input Field Bus Module
Series	I/A Series 100 Series FBM
Alias	P0400YD; FBM03; FBM 03
Module Function	RTD Input Interface Module
Channel Count	8 RTD input channels
Resistance Range	0 to 320 ohm
Wiring Two And Four Wire	accepted
Wiring Three Wire	accepted
Wiring Mix Rule	3-wire RTDs may not be mixed with 2- or 4-wire RTDs in the same module
Excitation Current Catalog	0.75 mA dc
Module Class	main type; independently connects to redundant Fieldbus
Application Program	Analog Input
Configurable Options	Analog Input Resolution (per module); Fieldbus Switching Enable; Fieldbus Switching Time
System Platform	Foxboro I/A Series DCS
I/O Generation	100 Series Field Bus Module
Typical Sensors	100 ohm platinum (Pt100) across industrial temperature scales
Nickel Copper Family Listings	120 ohm nickel and 10 ohm copper cited on some 100 Series RTD summaries
Pt1000 Caution	only if operating resistance remains within 0 to 320 ohm
Fieldbus	redundant Fieldbus to CP/FCP
Gross Weight Listing	about 1 kg / 2.2 lb shipping
Packing Size Listing	6.4 in x 6.4 in x 4.8 in
Country Of Origin Catalog	United States

PARAMETER	VALUE
Mounting	I/A Series 100 Series baseplate / 1×8 FBM structure
Termination	dedicated 100 Series RTD terminal assembly for 2/3/4-wire
Open Wire Detection	broken RTD / open-circuit diagnostic cited on some FBM03 listings
Hot Swap Practice	TA retains field wiring while FBM is replaced (100 Series family)
Successor Path	200 Series RTD FBMs for new I/O
Signal Conversion	resistance to digital Fieldbus value
Isolation Family	group-isolated RTD inputs (100 Series FBM03 listings) Notes Specs from Foxboro FBM03 product text for P0400YD (0 to 320 ohm, 2/4-wire vs 3-wire mix rule). Some reseller accuracy/scan-time numbers conflict and are omitted. Confirm wiring mode, TA, and Pt100 versus other RTD types on the installed module.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	P0400YD
Manufacturer	Foxboro (Invensys / Schneider Electric)
Instrument Type	RTD Input Field Bus Module
Series	I/A Series 100 Series FBM
Alias	P0400YD; FBM03; FBM 03
Module Function	RTD Input Interface Module
Channel Count	8 RTD input channels
Resistance Range	0 to 320 ohm
Wiring Two And Four Wire	accepted
Wiring Three Wire	accepted
Wiring Mix Rule	3-wire RTDs may not be mixed with 2- or 4-wire RTDs in the same module
Excitation Current Catalog	0.75 mA dc
Module Class	main type; independently connects to redundant Fieldbus
Application Program	Analog Input
Configurable Options	Analog Input Resolution (per module); Fieldbus Switching Enable; Fieldbus Switching Time
System Platform	Foxboro I/A Series DCS
I/O Generation	100 Series Field Bus Module
Typical Sensors	100 ohm platinum (Pt100) across industrial temperature scales
Nickel Copper Family Listings	120 ohm nickel and 10 ohm copper cited on some 100 Series RTD summaries
Pt1000 Caution	only if operating resistance remains within 0 to 320 ohm
Fieldbus	redundant Fieldbus to CP/FCP
Gross Weight Listing	about 1 kg / 2.2 lb shipping
Packing Size Listing	6.4 in x 6.4 in x 4.8 in
Country Of Origin Catalog	United States

PARAMETER	VALUE
Mounting	I/A Series 100 Series baseplate / 1x8 FBM structure
Termination	dedicated 100 Series RTD terminal assembly for 2/3/4-wire
Open Wire Detection	broken RTD / open-circuit diagnostic cited on some FBM03 listings
Hot Swap Practice	TA retains field wiring while FBM is replaced (100 Series family)
Successor Path	200 Series RTD FBMs for new I/O
Signal Conversion	resistance to digital Fieldbus value
Isolation Family	group-isolated RTD inputs (100 Series FBM03 listings)

Notes
Specs from Foxboro FBM03 product text for P0400YD (0 to 320 ohm, 2/4-wire vs 3-wire mix rule). Some reseller accuracy/scan-time numbers conflict and are omitted. Confirm wiring mode, TA, and Pt100 versus other RTD types on the installed module.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.