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Data Sheet

August 13, 2026

SCHNEIDER ELECTRIC / INVENSYS / FOXBORO

Schneider Electric / Invensys / Foxboro FBM201 Analog Input Interface Module

Foxboro Compact FBM201 Analog Input 0 to 20 mA Interface Module The Compact FBM201 provides eight 0 to 20 mA dc analog input channels for the Compact 200 Series I/O subsystem (PSS 31H-2C201). Each channel accepts a 2-wire 0 to 20 mA dc input from an analog sensor. Per-channel galvanic isolation and independent sigma-delta converters support high accuracy. The module communicates with FCM or FCP over redundant 2 Mbps Fieldbus. Compact FBM201 part RH101DA; termination RH916XG supersedes P0916AA. Foxboro Evo / I/A Series Compact 200 analog acquisition of 4 to 20 mA transmitters; Class G3 harsh cabinets; DIN-rail or 19-inch compact baseplate I/O; replacement of 100 Series FBM01 in migrated nodes. The Compact FBM201 provides eight 0 to 20 mA dc analog input channels for the Compact 200 Series I/O subsystem (PSS 31H-2C201). Each channel accepts a 2-wire 0 to 20 mA dc input from an analog sensor. Per-channel galvanic isolation and independent sigma-delta converters support high accuracy. The module communicates with FCM or FCP over redundant 2 Mbps Fieldbus. Compact FBM201 part RH101DA; termination RH916XG supersedes P0916AA. Foxboro Evo / I/A Series Compact 200 analog acquisition of 4 to 20 mA transmitters; Class G3 harsh cabinets; DIN-rail or 19-inch compact baseplate I/O; replacement of 100 Series FBM01 in migrated nodes.

**MODEL****Schneider Electric
/ Invensys /
Foxboro FBM201****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****FBM201****LISTING****[https://aumictechlabs.c
om/products/fbm201-2/](https://aumictechlabs.com/products/fbm201-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schneider Electric / Invensys / Foxboro FBM201 is an 8-channel analog input interface module designed for industrial control systems. It acquires 0–20 mA DC signals from field devices with galvanic isolation per channel, delivering $\pm 0.03\%$ accuracy and independent Sigma-Delta conversion. The module integrates into distributed I/O networks via redundant 2 Mbps Fieldbus communication with FCM or FCP controllers, supporting HART-compatible signals and configurable integration periods.

Technical Specifications

Input Channels: 8 isolated, independent channels
Signal Range: 0–20 mA DC per channel
Analog Accuracy: $\pm 0.03\%$ of span (includes linearity)
Temperature Coefficient: ± 50 ppm/ $^{\circ}\text{C}$
Input Impedance: 61.5 Ω nominal
A/D Conversion: Independent Sigma-Delta converter per channel
Common Mode Rejection: >100 dB at 50/60 Hz
Normal Mode Rejection: >95 dB at 50/60 Hz
HART Compatibility: Electrically compatible with standard HART signals

Key Features

Redundant 2 Mbps Fieldbus communication with FCM or FCP
Software-configurable integration period and rate-of-change limits
Maximum termination cable length: 30 meters (98 feet)
Input voltage (redundant): 24 V dc $\pm 5\%$, -10%
Power consumption: 7 W maximum
Heat dissipation: 3 W maximum
Compact form factor: 130 mm H $\times$ 25 mm W $\times$ 150 mm D (includes connectors) or standard: 102–114 mm H $\times$ 45 mm W $\times$ 104 mm D
Module weight: 0.284 kg
Enclosure: Rugged extruded aluminum (standard) or ABS plastic (compact)

Typical Applications

Industrial automation and process control
Field device signal acquisition and integration
Distributed I/O systems requiring high noise immunity

Compatibility & Integration

Mounts on 16-slot horizontal baseplate compatible with DIN rail or 19-inch rack installation.
Termination assemblies support 32 mm and 35 mm DIN rail standards. Cabling distance depends on compliance voltage (22.8 VDC), wire resistance, and field device voltage drop.

Features & description

From manufacturer datasheet

Features

- Eight isolated 0 to 20 mA dc inputs
- Analog accuracy ± 0.03 percent of span, ± 50 ppm/C
- Independent sigma-delta A/D per channel; new reading every 25 ms class averaging
- CMR greater than 100 dB and NMR greater than 95 dB at 50/60 Hz
- 24 V dc ± 5 percent / ± 10 percent, 7 W consumption, 4 W heat
- Compact 200 Series 16-slot horizontal baseplate; Class G3

FBM201 Characteristics / Specifications

PARAMETER	VALUE
Model	FBM201
Manufacturer	Foxboro (Invensys / Schneider Electric)
Instrument Type	Compact Analog Input Interface Module
Series	Compact 200 Series I/O
Alias	FBM201; Compact FBM201; RH101DA; P0916AA (TA predecessor)
PSS Document	PSS 31H-2C201
Channel Count	8 isolated independent channels
Input Range	0 to 20 mA dc
Analog Accuracy	+/-0.03 percent of span including linearity
Accuracy Temperature Coefficient	+/-50 ppm/C
Input Impedance	61.5 ohm nominal
A/D Conversion	independent sigma-delta converter per channel
Integration Period	software configurable
Common Mode Rejection	greater than 100 dB at 50 or 60 Hz
Normal Mode Rejection	greater than 95 dB at 50 or 60 Hz
Compliance Voltage	22.8 V dc (field cabling distance function)
Current Limit Design	analog inputs limited to less than 40 mA; about 100 mA if limit shorts
Isolation Withstand	600 V ac for one minute channel to ground or channel to channel
Input Voltage Range	24 V dc +5 percent, -10 percent redundant
Power Consumption	7 W
Heat Dissipation	4 W
Calibration	module and TA calibration not required
Operating Temperature Module	-20 to +60 C
Operating Temperature TA PA	-20 to +70 C
Relative Humidity	5 to 95 percent noncondensing

PARAMETER	VALUE
Operating Altitude	-300 to +3000 m
Storage Temperature	-40 to +85 C
Contamination	Class G3 harsh ISA S71.04
Vibration	7.5 m/s ² (0.75 g) from 5 to 500 Hz
Module Weight	185 g (6.5 oz) approximate
Module Height	130 mm (5.12 in)
Module Width	25 mm (0.98 in)
Module Depth	150 mm (5.9 in) including baseplate connectors; 139 mm (5.46 in) body
Fieldbus	redundant 2 Mbps module Fieldbus
TA Compression	RH916XG (supersedes P0916AA, P0916XG)
TA Ring Lug	P0917JK (supersedes P0916AB)
Cable Length	up to 30 m (98 ft)
Agency	UL/UL-C Class I Div 2 T4; ATEX Ex nA IIC T4 Zone 2; marine ABS/BV EC31
Construction	rugged ABS exterior Notes Specs from Foxboro PSS 31H-2C201 Compact FBM201. FBM201e listings may show +/-0.02 percent span; this file uses Compact FBM201 +/-0.03 percent. Confirm RH101DA versus older P0916AA TA and Compact versus standard 200 Series width.
Operating temperature	Module: -20 to +60 C
Humidity	5 to 95 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to +85 C
Operating temperature	Module: -20 to +60 C
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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	
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Construction	rugged ABS exterior

Notes

Specs from Foxboro PSS 31H-2C201 Compact FBM201. FBM201e listings may show +/-0.02 percent span; this file uses Compact FBM201 +/-0.03 percent. Confirm RH101DA versus older P0916AA TA and Compact versus standard 200 Series width.

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>

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