

Foxboro - I/A Series / EcoStruxure Foxboro DCS**FBM203D**

Eight-Channel Isolated 4-wire RTD Input Module

Verified product identity

FBM203D is the functional model designation; RH927AM is the current electronic-module part number; RH924EX is the separate four-wire compression termination assembly.

Verified specifications

RTD input channels	8, individually isolated
Resistance range	0 to 320 ohm
Supported sensor elements	Pt100 or Ni235 at 0 degrees C
RTD connection	4-wire
Accuracy	+/-0.03% of span
Temperature coefficient	+/-50 ppm/degrees C
Sensor excitation	0.19 mA nominal
Lead resistance	Up to 50 ohm per lead; imbalance not applicable
Common-mode rejection	>125 dB at 50/60 Hz
Normal-mode rejection	>95 dB at 50/60 Hz
Update rate	One new analog value every 25 ms
Channel isolation	Galvanically isolated channel-to-channel and channel-to-ground

Selection summary

Foxboro FBM203D is an eight-channel isolated four-wire RTD input module for Pt100 or Ni235 resistance-temperature measurement in Foxboro DCS systems.

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Additional verified data

Power consumption / heat	3 W maximum
Documented termination assembly	RH924EX four-wire compression TA
Termination cable	Type 4 for RH924EX per the official TA table; verify the exact cable part number because the same PSS text also states Type 2
Cable length	Up to 30 m
Cable connections	37-pin D-subminiature at the FBM baseplate and RH924EX TA
Module Fieldbus	Redundant 2 Mbps
Input power	24 VDC +5%, -10%
Operating temperature	-20 to +70 degrees C
Storage temperature	-40 to +70 degrees C
Relative humidity	5 to 95%, noncondensing
Vibration	0.75 g from 5 to 500 Hz
Dimensions	4.5 x 10.2 x 10.4 cm (W x H x D)

Installation and commissioning

- Use the RH924EX four-wire compression termination assembly with FBM203D
- Verify the exact cable part number because the official PSS contains conflicting Type 2 and Type 4 references
- Keep the termination cable within 30 m and confirm the 37-pin connections at both ends

Application checkpoints

- Isolated Pt100 or Ni235 resistance-temperature measurement
- Like-for-like FBM203D retrofit with preserved four-wire field wiring and scaling
- Multi-point RTD monitoring requiring channel-to-channel isolation

Cable-reference note

The official termination-assembly table assigns RH924EX to Type 4 cable, while the physical-specification text in the same PSS states Type 2. Verify the installed TA and complete cable part number before replacement.

Evidence boundary

Dimensions are the official electronic-module envelope. Approximate module net weight is 0.284 kg; the termination assembly, cable and packaging are excluded.