

Foxboro - 200 Series FBM**FBM211 RH914TN**

FBM211 0 to 20 mA Input Module

Verified model data

Functional designation	FBM211
Current module part number	RH914TN
Input channels	16, arranged as two group-isolated sets of eight
Supported field signals	2-wire 4 to 20 mA transmitter; self-powered 20 mA source; supervised digital input
Input range	0 to 20.4 mA DC; each channel current limited to 33 mA
Conversion method	Multiplexed sigma-delta A/D conversion
New reading interval	100 ms
Accuracy	±0.03% of span
Accuracy temperature coefficient	±50 ppm/°C
Input impedance	61.9 Ω nominal
Common-mode rejection	>100 dB at 50 or 60 Hz

Selection summary

FBM211 RH914TN is the current Foxboro part-number identity for the FBM211 0 to 20 mA input module used on supported 200 Series baseplates.

The module converts sixteen field inputs for the redundant module Fieldbus and supports transmitter loops, self-powered current sources and line-monitored dry contacts in two group-isolated banks.

Before installation or replacement, confirm processor and software support, baseplate position, selected termination assembly, Type 4 cable, loop-power method and the saved channel configuration.

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Additional verified data

Normal-mode rejection	>35 dB at 50 or 60 Hz
Module Fieldbus	Redundant 2 Mbit/s
Input voltage	24 VDC +5%, -10%
Maximum power consumption	7 W; 11 W with all inputs at 20.4 mA using internal power
Maximum heat dissipation	3 W at 24 VDC
Calibration requirement	Module and termination assembly calibration not required
Mounting	Modular 200 Series baseplate
Operating temperature	-20 to +70°C
Relative humidity	5 to 95%, noncondensing
Dimensions (W × H × D)	4.5 × 10.2 × 10.4 cm; height 11.4 cm including mounting lugs
Approximate module net weight	0.284 kg

Signal Setup

- Configure each channel for the actual transmitter or supervised contact circuit
- Preserve conversion-time, rate-of-change and engineering-unit settings
- Add the documented 200 Ω series assembly when a FoxCom or HART transmitter requires it

Termination

- Use RH916JT for customer-supplied external loop power
- Use RH916BT for FBM auxiliary +24 VDC loop power
- Connect the selected TA through the documented Type 4 termination cable

Diagnostics

- Use front LEDs and controller diagnostics to separate module and field faults
- Investigate shared reference or field-power problems when eight channels are affected
- Verify redundant Fieldbus recovery before removing maintenance bypasses

Application checkpoints

- 2-wire 4 to 20 mA process transmitter acquisition
- Self-powered 20 mA analog source measurement
- Line-monitored dry-contact input using end-of-line resistors

Evidence boundary: The May 2025 official FBM211 specification identifies RH914TN as the current module part number. The stated dimensions and 0.284 kg weight apply to the electronic module body, not RH916JT, RH916BT or a cable kit.

Source basis: Schneider Electric Foxboro DCS PSS 41H-2S211 Rev D, May 2025.