

Foxboro DCS**FBM248**

Current/Voltage Analog, Digital and Pulse I/O Configurable Module (Redundant)

Verified product identity

The official PSS identifies FBM248 and current module part number RH100KG as the same electronic module identity.

Verified specifications

Current module part number	RH100KG
Configurable channels	8 individually isolated channels
Redundancy	Master/tracker module pair
Analog input modes	HART 4-20 mA; HART or non-HART 0-20 mA; 0-10 V or 0-5 V
Analog output modes	HART or non-HART 0-20 mA
Discrete and pulse modes	Dry contact, NAMUR, pulse/frequency/acceleration/jerk, or 24 VDC low-current output
Analog input accuracy	±0.075% of span
Analog input resolution	16 bits
Analog output range	0 to 20.4 mA
Analog output load	750 Ω maximum
Analog output accuracy	±0.075% of span
Analog output resolution	13 bits

Selection summary

Foxboro FBM248 is an eight-channel redundant configurable I/O module for analog, HART, digital and pulse field signals.

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Foxboro DCS**FBM248****Additional verified specifications**

Analog output delay	30 ms maximum
Channel isolation test	600 VAC for 1 minute between each channel and ground
Module Fieldbus	Redundant 2 Mbps
Input power	24 VDC +5%, -10%
Power consumption	10 W maximum single module; 14 W maximum redundant pair
Heat dissipation	8.2 W maximum single module; 14.1 W maximum redundant pair
Operating temperature	-20 to +70°C
Storage temperature	-40 to +85°C
Relative humidity	5 to 95%, non-condensing
Vibration	0.75 g from 5 to 500 Hz
Dimensions	4.5 × 10.2 × 10.4 cm (W × H × D); 11.4 cm height including mounting lugs
Weight	0.373 kg (approximate module net weight)

Installation and commissioning

- Match the exact model and official module identity, compatible hardware, software release and network or field wiring.
- Preserve configuration, channel or device mappings, redundancy state and active diagnostics before removal.
- Commission all used signals or communications and verify alarms, diagnostics and control behavior.

Official applications

- Mixed HART and non-HART 4-20 mA process loops
- Configurable voltage, current and digital input acquisition
- Redundant pulse/frequency measurement and low-current 24 VDC output service

Evidence boundary

Dimensions and weight apply only to the FBM248 electronic module. Termination hardware, cables, companion modules and packaging are excluded.

Source basis: official Schneider Electric / Foxboro model-specific Product Specifications Sheet.