

Foxboro - Foxboro 200 Series**FBM247**

Configurable Analog/Digital/Pulse I/O Module

Verified model data

Manufacturer	Foxboro
Functional designation	FBM247
Exact module part number	RH927BN
Channels	8 independently configurable and isolated I/O channels
Supported modes	HART/current/voltage/discrete/pulse/frequency
Module dimensions	4.5 × 10.2 × 10.4 cm (W × H × D)
Module net weight	0.373 kg, approximate
Analog voltage input	-0.2564 to 10 VDC or -0.1282 to 5 VDC
Isolation test	600 VAC for 1 minute between any channel and ground, or between any two channels
Heat dissipation	6.8 W maximum
Operating temperature	-20 to +70°C

Selection summary

Foxboro FBM247 combines HART analog input/output, conventional current or voltage input, discrete sensing, pulse measurement and digital output in one module.

Each channel is galvanically isolated and configured independently, enabling mixed signal types without forcing the entire module into a single operating mode.

It is applied where a Foxboro 200 Series station needs flexible field integration with fewer dedicated module types and controlled channel-by-channel commissioning.

Foxboro - Foxboro 200 Series**FBM247****Additional verified data**

Storage temperature	-40 to +70°C
Relative humidity	5 to 95%, non-condensing
Vibration	0.75 g from 5 to 500 Hz

Channel Modes

- Each of eight channels is configured independently
- HART, analog, discrete and pulse modes are documented
- Channel mode changes do not require the other channels to be taken offline

Isolation & Wiring

- Every channel is galvanically isolated from other channels and ground
- A shield terminal is provided for each channel
- TA and cable selection must match the channel configuration

Commissioning

- Restore channel modes and scaling before applying field power
- Validate analog direction, pulse thresholds and HART communication
- Test channel faults without disturbing unrelated configured channels

Application checkpoints

- Mixed analog and discrete field I/O on one module
- HART transmitter or positioner integration
- Pulse, frequency and event acquisition within documented limits

Evidence boundary: Official data supports the functional FBM247 model and maps it to exact module part RH927BN. Physical values are module-only.

Source basis: Foxboro PSS 41H-2S247, Rev. C.