

Foxboro - Compact 200 Series**FBM214E**

Compact 16-Channel HART Communication Input Interface Module

Verified model data

Manufacturer	Foxboro
Functional designation	Compact FBM214E
Exact module order number	RH101RP
Channels	16 HART-capable analog inputs
Signal	4 to 20 mA with HART communication
Module dimensions	2.5 × 13.0 × 15.0 cm (W × H × D, including connectors)
Module net weight	0.227 kg, approximate
HART support	Versions 5, 6 and 7
Input range	0 to 20.5 mA
Loop power current limit	Less than 33 mA
Isolation test	600 VAC for 1 minute between the group-isolated channels and ground

Selection summary

Foxboro FBM214E receives 4–20 mA process signals and exchanges HART data with up to sixteen supported field devices.

The module isolates its input group from module logic and ground while the matching TA determines whether loop power comes from an external supply or the FBM auxiliary 24 VDC source.

It supports process measurement together with HART diagnostics and configuration in Compact 200 Series installations using compatible Control Core Services software.

APTER POWER

Foxboro - Compact 200 Series**FBM214E****Additional verified data**

Operating temperature	-20 to +60°C
Storage temperature	-40 to +85°C
Relative humidity	5 to 95%, non-condensing
Vibration	0.75 g from 5 to 500 Hz

HART Integration

- Sixteen 4–20 mA channels support HART communication
- One field device is supported per internally powered channel
- Device diagnostics remain available through the control-system tools

Power Selection

- RH101RT is used for customer-supplied external loop power
- RH101RY uses the FBM auxiliary 24 VDC source
- TA choice must match grounding and loop-power architecture

System Compatibility

- The module requires a Compact 200 Series baseplate
- Control Core Services v9.5 or later is documented
- Fieldbus communication uses the redundant 2 Mbps Module Fieldbus

Application checkpoints

- HART-enabled process transmitter input
- Centralized 4–20 mA measurement with field-device diagnostics
- Compact DCS analog input migration using the documented FBM214E TA

Evidence boundary: Official evidence supports the FBM214E functional model and identifies RH101RP as the exact module order number. Dimensions and weight are module-only.

Source basis: Foxboro PSS 41H-2C214E, Rev. B.