

Foxboro - Compact 200 Series**RH101DF**

Compact FBM217 Discrete Input Module

Verified model data

Manufacturer	Foxboro
Part number	RH101DF
Functional designation	Compact FBM217
Input channels	32 group-isolated channels
Input range	0 to 30 VDC discrete
Maximum pulse count rate	250 Hz
Module dimensions	2.5 × 13.0 × 15.0 cm (W × H × D, including connectors)
Module net weight	0.185 kg, approximate
Power consumption	3 W
Heat dissipation	5 W
Operating temperature	-20 to +60°C

Selection summary

Foxboro RH101DF samples 32 discrete channels and transfers their states to an associated control processor over the redundant 2 Mbps Module Fieldbus.

Its input behavior is set by the installed termination assemblies, allowing supported low-voltage monitoring, contact sensing and selected high-voltage interfaces without changing the module identity.

The module is used where dense field-status acquisition, optional redundancy and sequence-of-events support are required in Compact 200 Series stations.

APTER POWER

Foxboro - Compact 200 Series**RH101DF****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

Input Architecture

- 32 group-isolated discrete input channels
- Configurable debounce supports stable field-status acquisition
- Pulse counting is supported within the documented 250 Hz limit

Termination Strategy

- TA selection determines voltage, contact-sense and isolation behavior
- Type 4 cable connects the baseplate to the main TA
- Type 6 cable links a compatible main TA to its expansion TA

Commissioning

- Restore the exact slot and channel map before enabling logic
- Prove every main and expansion TA terminal against the database
- Verify redundancy and event timing where configured

Application checkpoints

- Dense discrete-status acquisition in Compact 200 Series stations
- Contact-sense monitoring with a documented matching TA
- Voltage-state monitoring using an approved RH101DF termination arrangement

Evidence boundary: Exact RH101DF identity, dimensions and weight are stated in the official PSS. TA dimensions and weights are not used as module data.

Source basis: Foxboro PSS 41H-2C217, Rev. B.