

Foxboro DCS**FDC280**

Field Device Controller 280

Verified product identity

The official PSS identifies FDC280 and current module part number RH101FQ as the same controller identity.

Verified specifications

Current module part number	RH101FQ
Processor	Dual-core CPU
Control capacity	Up to 8,252 control blocks
Block processing	Up to 16,000 blocks per second
Minimum block processing cycle	100 ms
Field-device capacity	Up to 256 field devices
Soft I/O capacity	Up to 8,000 points
Control network	100 Mbps fiber or copper Ethernet
Field Ethernet	10/100 Mbps or 1 Gbps, driver dependent
Serial ports	4, individually configurable for RS-232, RS-422 or RS-485
RS-485 capacity	Up to 128 devices total; 32 per port

Selection summary

Foxboro FDC280 is a distributed, optionally fault-tolerant controller that integrates Ethernet and serial field devices without separate FBMs.

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FDC280

Additional verified specifications

Supported protocol families	PROFINET, Modbus TCP, Modbus RTU, Triconex SAA, OPC UA Client and EtherNet/IP Scanner
Supported software	Foxboro Evo Control Core Services v9.3 or later
Input power	24 VDC typical
Power consumption	8.5 W maximum, non-redundant
Operating temperature	-20 to +60°C
Storage temperature	-40 to +70°C
Relative humidity	5 to 95%, non-condensing
Vibration	0.5 g from 5 to 500 Hz
Dimensions	5.18 × 10.5 × 14.7 cm (W × H × D); 11.6 cm height including mounting lugs
Weight	0.8 kg (maximum, single module)

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

- Ethernet field-device integration using supported industrial protocols
- Serial field-device integration over RS-232, RS-422 or RS-485
- Distributed control, data acquisition and alarm processing with direct device access

Evidence boundary

Dimensions and weight apply only to the FDC280 electronic module. Termination hardware, cables, companion modules and packaging are excluded.

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