Apter Power

EcoStruxure™

Foxboro™ DCS

Field Control Processor 280 (FCP280)

PSS 41H-1FCP280

Product Specification

April 2025



Schneider Electric

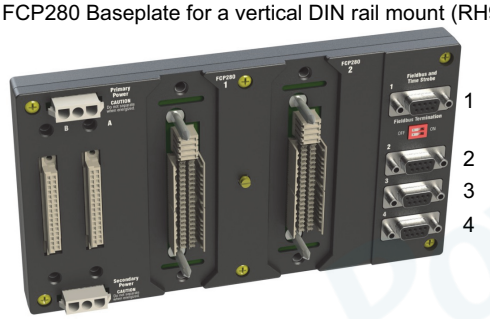
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Figure 5 - FCP280 Baseplates

Standard FCP280 Baseplate for a horizontal DIN rail mount (RH924YL)



Standard FCP280 Baseplate for a vertical DIN rail mount (RH924YF)



Dual Cable FCP280 baseplate for a vertical or horizontal DIN rail mount (RH100JX)



These 2-position baseplates support a non-fault-tolerant single or fault-tolerant pair of FCP280s, as well as two copper (RH924UQ) or fiber (RH924WA) adapters, required for connection to the Control Network.

The FCP280 baseplate provides support for four HDLC fieldbuses (PIO channels). On the standard baseplates, Fieldbus port 1 can be terminated, if needed, by the DIP switches provided on the baseplate. Fieldbus ports 2-4 are internally terminated in the FCP280 baseplates and no external hardware or switches are required for their termination. All four Fieldbus port pairs (A/B) on the dual cable baseplate are internally terminated by default without the use of DIP switches.

The FCP280 baseplates can be added in the field to existing or new configurations. The standard FCP280 baseplates have similar dimensions as the FCP270 2-position baseplates for ease of replacement, while the dual cable baseplates are larger and wider.

When upgrading existing CP60 systems to use FCP280s, you can recover an additional two FBM positions after removing the old FCM10E/FCM10Efs.

The following splitters and terminators can be used with FCP280 baseplate:

FCP280 Physical Specifications

Configuration	Single processor module. The fault-tolerant version consists of two processor modules, with an interconnecting fault-tolerant connector integral to the baseplate.
Mounting	May be placed in device specific 2-position baseplates designed for horizontal or vertical mounting — see FCP280 Baseplates, page 14. For the fault-tolerant FCP280, the two modules must be mounted in dedicated slots to allow for interconnecting fault-tolerant communication.
Dimensions: Module	• Height: 105 mm (4.13 in) or 116 mm (4.7 in) including mounting lugs • Width: 51.8 mm (2.04 in) • Depth: 147 mm (5.79 in)
Weight (Maximum)	0.8 kg (1.76 lb) for a single, non-fault-tolerant module.
Part Number	• FCP280: RH924YA • FCP280 Horizontal-Mounted Baseplate: RH924YL • FCP280 Vertical-Mounted Baseplate: RH924YF • FCP280 Dual Cable Baseplate: (Horizontal or Vertical mount) RH100JX • Fiber Adapter: RH924WA • Copper Adapter: RH924UQ • Splitter Adapters: ◦ Twinaxial Fieldbus Splitter: RH928CV ◦ Redundant Module Fieldbus Cable Adapter: RH924ZJ - For use when the FCP280 is in the middle of a 200 Series baseplate chain RH928CY - Enables the use of redundant module Fieldbus cables between baseplates to split and terminate the Modular Fieldbus and optional time strobe signals ◦ Time Strobe Adapter: RH924ZQ
Ethernet Switch to FCP280 Cabling	Cabling Connectors: • Fiber Adapter: Two ceramic type LC connectors on one end (for network adapters) with an MT-RJ connector on the other end (for switch) • Copper Adapter: RJ-45 connectors on both ends Fiber Optic Cable: • Cable Material: Multimode fiber (MMF) 62.5/125 µm plenum • Cable Lengths: Up to 50 m (164 ft) – Schneider Electric supplied. See “Network Cabling for FCP280 Network Adapters” in *Field Control Processor 280 (FCP280) User’s Guide* (B0700FW) for the appropriate specifications of allowed fiber optic cabling. Greater than 50 m – user supplied.