

Foxboro - Foxboro DCS**FCP280**

Field Control Processor 280

Verified model data

Manufacturer	Foxboro
Functional designation	FCP280
Exact module part number	RH924YA
Configuration	Single module or fault-tolerant pair
Process I/O	Four HDLC PIO channels; up to 128 FBMs subject to sizing
Module dimensions	5.18 × 10.5 × 14.7 cm (W × H × D)
Module net weight	0.8 kg maximum, single non-fault-tolerant module

Selection summary

Foxboro FCP280 executes regulatory, logic, timing and sequential control while communicating with supported field I/O through four HDLC PIO channels.

It can operate as a single controller or as a synchronized fault-tolerant pair, with network connectivity and interprocessor communication provided through its dedicated baseplate.

The processor supports distributed control and migration architectures that combine 100 and 200 Series modules, subject to documented sizing and fieldbus limits.

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Foxboro - Foxboro DCS**FCP280****Additional verified data****Control Architecture**

- The processor executes regulatory, logic, timing and sequential control
- Single and fault-tolerant configurations use dedicated FCP280 baseplates
- Four PIO channels connect supported 100 and 200 Series field modules

Migration Planning

- Controller and fieldbus loading must be sized before migration
- Baseplate type and network adapters must match the installation
- Database, letterbug and time-source configuration must be preserved

Commissioning

- Verify primary/shadow role and network-adapter health
- Confirm every PIO channel and attached baseplate chain
- Prove control execution, synchronization and recovery under controlled conditions

Application checkpoints

- Distributed regulatory and sequential process control
- Fault-tolerant control using a paired FCP280 configuration
- Migration control for supported 100 and 200 Series field I/O

Evidence boundary: Official evidence supports FCP280 and exact module part RH924YA. Capacity maxima remain subject to the official sizing workbook.

Source basis: Foxboro PSS 41H-1FCP280, Rev. H.

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