

Foxboro — Foxboro Field Control Processors

FCP270

Field Control Processor

Verified product identity

FCP270 is the official functional designation and P0917YZ is the exact official module part number in the model-specific Product Specifications Sheet.

Verified specifications

Official module part number	P0917YZ
Control functions	Regulatory, logic, timing and sequential control; data acquisition; alarm detection and notification
Controller arrangement	Single module or optional fault-tolerant pair
Control-network interface	100 Mbps Ethernet over fiber
Maximum fiber distance	2,000 m
Processor memory	16 MB SDRAM and 32 MB flash
Minimum basic processing cycle	50 ms
Block processing capacity	10,000 blocks per second
Maximum configured blocks	4,000
Block memory	5.8 MB
Sequence block size	32 KB
Fault-tolerant marry time	Less than 1 second
200 Series FBM capacity	Up to 32 without FBI200A or up to 124 with FBI200A, subject to official sizing

Product role

Foxboro FCP270 is a distributed field control processor for regulatory, logic, timing, sequential, data-acquisition and alarm functions in Foxboro DCS systems.

Foxboro — Foxboro Field Control Processors

FCP270

Additional verified specifications

100 Series FBM capacity	Up to 64, subject to official sizing
Input power	24 VDC typical
Power consumption	8.5 W maximum per non-fault-tolerant module
Operating temperature	0 to +60 °C
Storage temperature	–40 to +70 °C
Relative humidity	5–95%, noncondensing
Operating altitude	–300 to +3,000 m
Storage altitude	–300 to +12,000 m
Contamination class	ISA-S71.04 Class G3
Pollution degree	2
Vibration	0.5 g from 5 to 500 Hz
Dimensions	10.3 × 5.15 × 14.7 cm (H × W × D); 11.4 cm high including mounting lugs
Mounting	Device-specific two- or four-position horizontal or vertical baseplate

Dedicated weight field

0.6 kg maximum (official single non-fault-tolerant module weight)

Selection and installation

- Confirm FCP270 and official part number P0917YZ as one hardware identity
- Size control blocks, block periods and connected FBMs against the official capacity limits
- Match baseplate, fiber network, fieldbus topology and fault-tolerant pairing before replacement

Official applications

- Distributed regulatory and logic control in Foxboro process systems
- Fault-tolerant process control requiring synchronized processor pairs
- Coordination of 100 Series and 200 Series fieldbus I/O networks

Evidence boundary

Specifications apply only to the complete model identity shown above. Termination assemblies, baseplates, cables, adapters, companion modules and packaging are excluded unless a row explicitly identifies them as separate accessories.