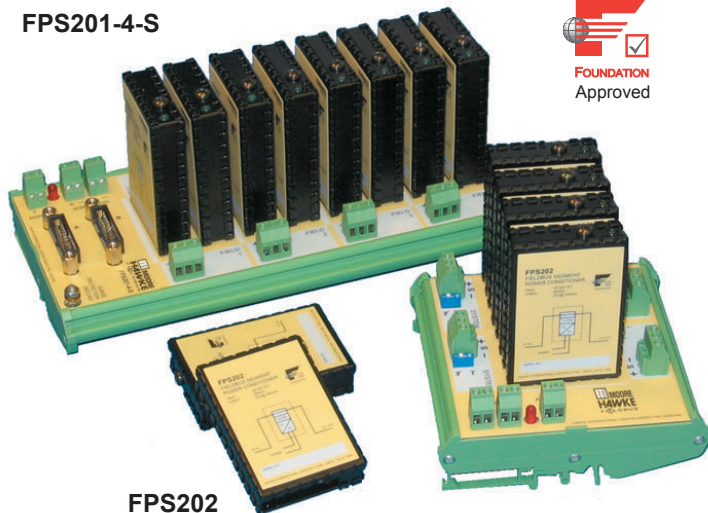


FPS201-4-S



FPS202

FPS201-2



High density isolated power supplies for FOUNDATION Fieldbus™ systems

Modular Fieldbus Segment Power Conditioners- redundant, individually replaceable modules for excellent availability: 99.9999989%!

Simple DIN-mounting carrier system and DCS cable connections - fast installation, easy wiring!

On-board surge protection option- nothing extra to buy or install!

Compatible with all MooreHawke user-friendly Device Couplers - the complete systems solution for fieldbus implementation!

The **FPS200 Fieldbus Power Supply System** is designed to simplify the implementation of fieldbus systems. Packaged as DIN-rail mounting Carriers with individual Fieldbus Segment Power Conditioners, the FPS200 system is easy to specify and simple to install. Each Carrier provides mounting positions for multiple Segment Power Conditioners, with built-in connectors for one (or two) DC supplies (18-32V). Segment wiring can be through conventional screw-clamp terminals or via DCS-specific connectors (also provided as redundant pairs) to minimize connection time on installation.

Each **Fieldbus Segment Power Conditioner** delivers up to 350mA of fully isolated and fieldbus-conditioned power per segment, fully compliant with FF831-1 and FF-registered. A green LED indicates proper operation per Conditioner, and each Conditioner is connected through to a Carrier-mounted common alarm with a red LED (plus a relay) for external status indication. Individual Power Conditioners (within redundant pairs) can be removed and replaced under load without affecting segment operation.

FPS200 Carriers are available for 2-, 4- or 8-segment configurations with switchable terminators, easily installed onto standard top-hat DIN-rail. Power Conditioner redundancy is available with the 2- and 4-segment Carriers. The 4- and 8-segment Carriers accept *Yokogawa* AKB336 system cables directly, and other DCS cables via no-cost FPS204 DCS Interfaces. Furthermore, all Carriers may optionally incorporate built-in multi-stage surge protection per segment with a 20kA gas discharge tube and high-energy diodes for the ultimate in compact and reliable fieldbus interfaces.

Installed in the safe area, the FPS200 System can power both general purpose devices and hazardous area devices with approved fieldbus Device Couplers. FPS200 is suitable for Zone2/Div2 mounting and formal approval from European and US authorities is currently pending. Contact MooreHawke for further details of hazardous location installations.

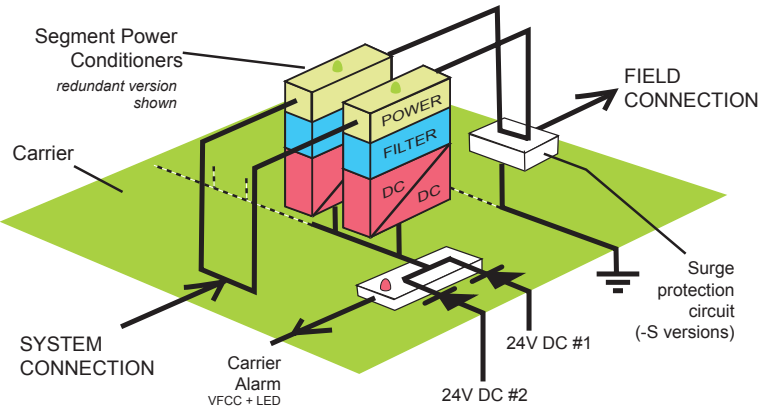
MooreHawke is the only company to offer a full complement of Device Couplers, providing a complete package for Zone2/Div2 and Zone1/Div1, individual spur short-circuit protection and full segment termination, plus process-compatible weatherproof enclosures (GRP glass-reinforced polyester and 316 Stainless Steel) with ready-fitted cable glands for any cable type.

For intrinsically-safe applications, the RM100 system provides class-leading segment performance with no FISCO restrictions. Please contact MooreHawke for further details.

SPECIFICATIONS

Power Conditioner	
Output	350mA capability, 26V (no load)
DC/DC Isolation	500 VDC (segment to power supply)
Power Dissipation	5.5W per segment at full load (shared in duplex mode)
Indicator	Green LED (ON when OK)
MTBF (MIL HDBK-217 F) Availability	53.90 years (per individual module) 99.9999989% (redundant segment, simple carrier)
Carrier	
Capacity	FPS201-2 2 segments (up to 4x FPS202 Modules) FPS201-4 4 segments (up to 8x FPS202 Modules) FPS201-8 8 segments (up to 8x FPS202 Modules, non-redundant)
Supply Voltage	18-32V DC
Power Requirement	13.5VA (per segment, fully loaded)
Alarm	N/C Relay & Red LED (ON = FAULT)
Action	<18V DC input, <22V Module output, segment shorted
Contact Rating	0.4A@125Vac / 2A@30VDC
Terminator	100Ω / 1.0μF (per segment, switchable)
Environmental limits	
Operation	-20 to +60 DegC, 0 - 95% RH non-condensing
Storage	-40 to +80 DegC, 0 - 95% RH non-condensing
EMC Compliance	EN61326: 1998 EN61000-6-3/4 EN61000-6-1/2
Carrier Terminals	Cage-clamp type, max. 4mm ² (12-24AWG)
DCS Cables	Multi-way socket (accepts 2x Yokogawa AKB336 cables) (4- & 8-way only) Other DCS cables via specific FPS204 adaptor
Surge Protection (-S)	
(4- & 8-way only)	20kA (8/20μs) rated single shot 10kA (8/20μs) rated, multi-shot 5Ω/segment loop series resistance
Approvals	Fieldbus Foundation FF831-1

TYPICAL HOOK-UP & APPLICATION



TO ORDER, please specify the following complete codes

FPS201-2 DIN Carrier, 2 segment, duplex
FPS201-4 DIN Carrier, 4 segment, duplex
FPS201-8 DIN Carrier, 8 segment, simplex

FPS201-4-S DIN Carrier, 4-segment, duplex with surge protection
FPS201-8-S DIN Carrier, 8-segment, simplex with surge protection

FPS202 Fieldbus Segment Power Conditioner
(2 units required for redundant segment)

ACCESSORIES

FPS204-FOX DCS-specific interface (Foxboro)
FPS204-ABB DCS-specific interface (ABB)

(None required for Yokogawa)

DIMENSIONS

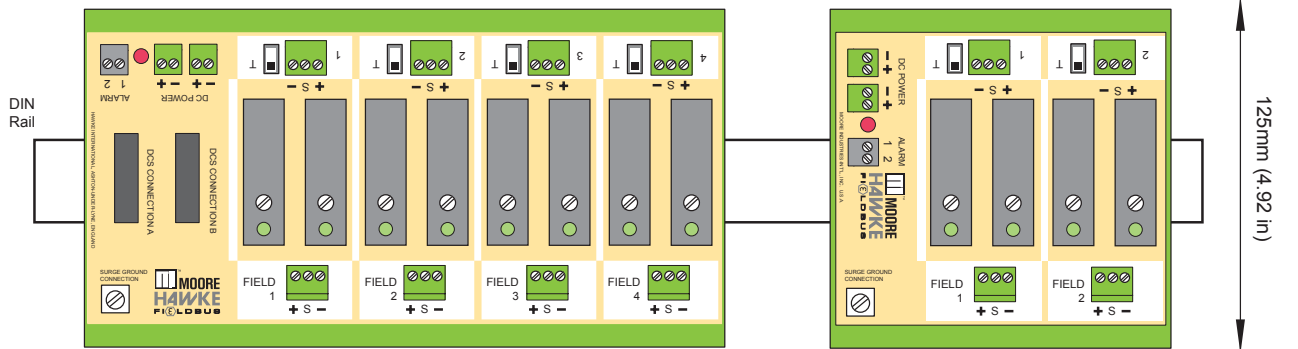
FPS201-4 (-S)
FPS201-8 (-S)

FPS201-4-S shown

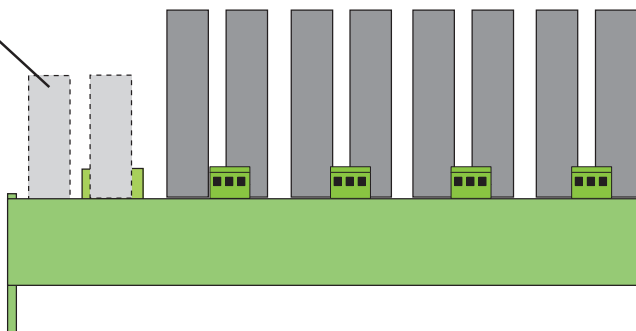
FPS201-2

239mm (9.41 in)

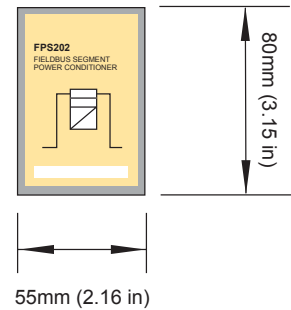
125mm (4.92 in)



FPS204-***



FPS202



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Specifications and information subject to change without notice.