September 2016 EPS F11 rev 2

## CROUSE-HINDS SERIES

## F11 Fieldbus Power Hub

Power conditioner with terminators for fieldbus networks

- Built-in fieldbus power conditioning
- 5 fieldbus device ports
- 30mA current per device
- Up to 315mA total current
- Auxiliary port for expansion•
- Complete with AC power supply
- Battery-pack option 5 fieldbus device ports



**The Relcom Power Hub (F11)** is the next generation of the popular Power Hub. Ideal for bench-tops, labs, demonstrations and test setups, the Power Hub is a mini fieldbus segment in a box—just add devices.

**The Power Hub is a combined bulk power** supply, fieldbus power conditioner, two built-in terminators, five ports for attaching devices (Device Ports), and an Auxiliary Port for expansion and connection of additional devices. It functions as a zero length homerun with spurs (star topology).

**The Power Hub is powered by a plug-in wall transformer** with an input voltage range of 100-240VAC (50-60Hz). Adapters are supplied with the transformer for four different country power outlets (North America, Europe, UK, and Australia).

**Fieldbus devices can be connected to the Power Hub** with shielded or unshielded twisted pair fieldbus cable. The controller (host), if present, is considered to be a device.

**The Power Hub provides a minimum of 30mA** of power-conditioned current for each Device Port. If the current needs of a fieldbus segment exceed the capability of a Device Port, the Auxiliary Port can also be used to provide additional power-conditioned current.

**The Power Hub can supply up to 315mA** of power-conditioned current for all Device Ports and the Auxiliary Port. The Power Hub can be mounted on a 35mm DIN rail. For applications where AC power is not available, the Power Hub can also be mounted on a battery pack (accessory FCS-A11) for fieldbus power in the field.

**Current limiting SpurGuard™ protection** for each Power Hub Device Port limits the current draw of an attached cable and device and protects against short circuits. A short circuit in a spur cable or device will not take down the entire segment. The remaining devices on the segment continue to operate normally.

Wire Connections to the Power Hub are made using pluggable screw terminal connectors. Pluggable connectors allow easy connecting, disconnecting, and moving of devices for reconfiguration, maintenance, and troubleshooting. Two securing screws on each connector ensure it stays in place.

**To connect a device,** cut and strip the +, -, and shield (S) wires, insert them into the terminals, and tighten the screw terminals. Plug the connector into a Device Port or the Auxiliary Port and tighten the securing screws.

A typical use for the Power Hub is to configure, precommission, test, or calibrate Fieldbus devices. In this case, the Fieldbus device and host device (Emerson 375 or 475, National Instruments Fieldbus interface, etc.) are connected to the Power Hub. No other components are required to have a functioning Fieldbus segment.



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## MTL F11 Fieldbus Power Hub September 2016

SPECIFICATIONS	CASE DIMENSIONS	<b>A</b> ( ( )
ELECTRICAL		2.66" 67.6 mm
Device Port Rated Current 30mA Total Current for all Device Ports and Auxiliary Port 315mA max. (for specified operation) Device Port Short Circuit Protection Continuous protection against damage Maximum Fieldbus Cable Length 120 metres Auxiliary Port Short Circuit Protection Continuous protection against damage Wall-mounted Bulk Power Supply Input voltage: 100 - 240V ac, 50/60Hz Output voltage: 24V dc (nominal)		Image: State of the state o
MECHANICAL Fieldbus Connectors Six sets, pluggable screw-terminal, with two securing screws Mounting requirements 35mm DIN rail Wire capacity 0.14 to 2.5mm <sup>2</sup>		
Case material Lexan polycarbonate Temperature range 0° to +50°C Weight 146g (nominal)	Connection diagram	100-240VAC 50/60Hz Wall Transformer
PHYSICAL NETWORK		
IEC 61158-2 Foundation™ fieldbus H1 Profibus PA		

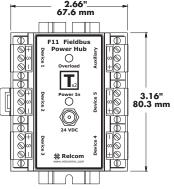
## **ORDERING INFORMATION**

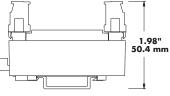
Wall Power Supply and

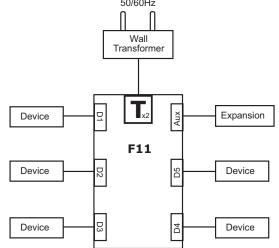
(included with F11)

Interchangeable Power Outlet Adapters

Fieldbus Power Hub	F11
Battery Pack (Power Hub power in the field)	FCS-A11
Heavy-duty DIN rail end stop	FCS-A06
35mm DIN rail, aluminum,1 meter	FCS-A01







F11 with Optional Battery Pack



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ASIA-PACIFIC: +65 6 645 9888 sales.mtlsing@eaton.com The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.



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