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.
### SPECIFICATIONS

#### ELECTRICAL
- **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

#### MECHANICAL
- **Fieldbus Connectors**: Six sets, pluggable screw-terminal, with two securing screws
- **Mounting requirements**: 35mm DIN rail
- **Wire capacity**: 0.14 to 2.5mm²
- **Case material**: Lexan polycarbonate
- **Temperature range**: 0º to +50ºC
- **Weight**: 146g (nominal)

#### PHYSICAL NETWORK
- **IEC 61158-2**
- **Foundation™ fieldbus H1**
- **Profibus PA**

### ORDERING INFORMATION
- **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

#### Wall Power Supply and Interchangeable Power Outlet Adapters (included with F11)

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**Case Dimensions**

Connection diagram

100-240VAC 50/60Hz

Wall Transformer

Device

Expansion

Device

Device

Device

F11 with Optional Battery Pack

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Eaton Electric Limited,
Great Marlings, Butterfield, Luton
Beds, LU2 8DL, UK.
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283
E-mail: mtlenquiry@eaton.com
www.mtl-inst.com
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**EUROPE (EMEA):**
+44 (0)1582 723633 mtlenquiry@eaton.com

**THE AMERICAS:**
+1 800 835 7075 mtl-us-info@eaton.com

**ASIA-PACIFIC:**
+65 6 645 9888 sales.mtlsing@eaton.com

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