

Product Specification

FOUNDATION™ Fieldbus
Profibus PA

F11-YK2

The **Relcom Fieldbus Labkit (F11-YK2)** is a convenient kit containing the Relcom Fieldbus Power Hub (F11) and six cables. Ideal for bench-tops, labs, demonstrations, and test setups, the Power Hub is a mini Fieldbus segment in a box - just add devices and a host. The supplied cables allow connection to five Fieldbus devices and a National Instruments Fieldbus Interface card (USB, PCMCIA, or PCI).

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

Internally the Power Hub contains a Fieldbus power conditioner, two built-in terminators, and SpurGuard™ current limiters. There are five ports for attaching devices (gray connectors), and an Auxiliary Port (black connector) for connection of additional devices. Plug-gable screw terminal connectors are used on all ports for the Fieldbus connections. The connectors may be secured to the Power Hub with the two retaining screws if desired.

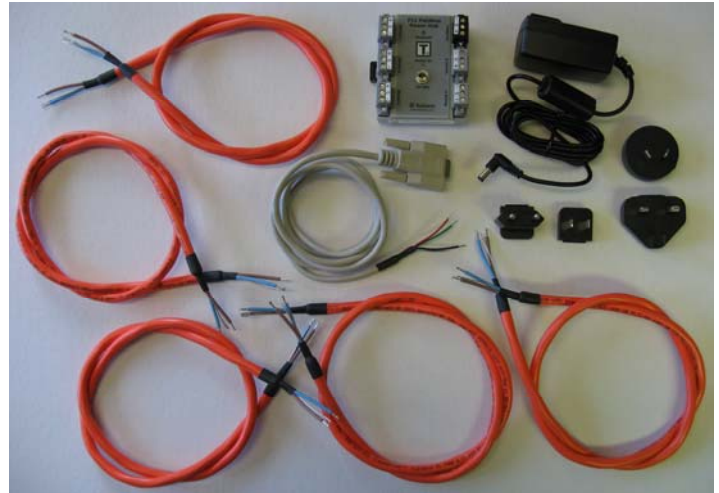
A minimum of 30mA is available for each Device port. If the current requirements of a Fieldbus device exceed the capability of the Device port, the Auxiliary Port can be used to provide additional power conditioned current. A total of 315mA can be supplied by the Power Hub. If any of the Device Ports or the Auxiliary Port is overloaded, a red Overload indicator will light.

For applications where AC power may not be available, the FCS-A11 Battery Pack may be used to supply power to the Power Hub. For more information on the FCS-A11 Battery Pack, see our product specification PS-070.

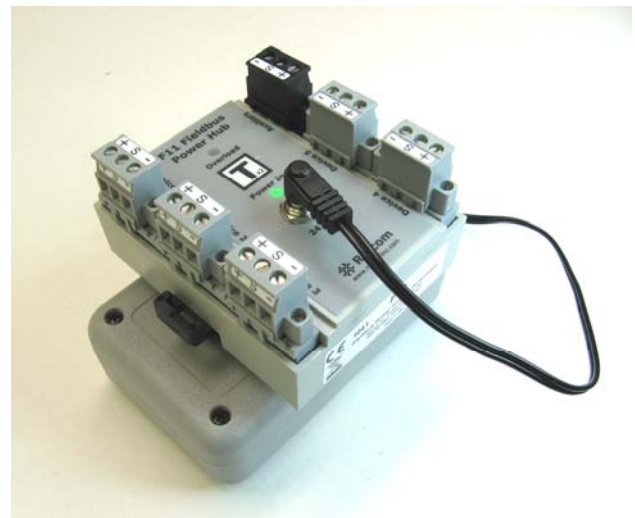
For convenience, the Power Hub can be mounted on standard 'top hat' 35mm DIN rail.

A typical use for the Power Hub is to configure, pre-commission, 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.

F11-YK2 Relcom Fieldbus Labkit



F11 with Optional Battery Pack

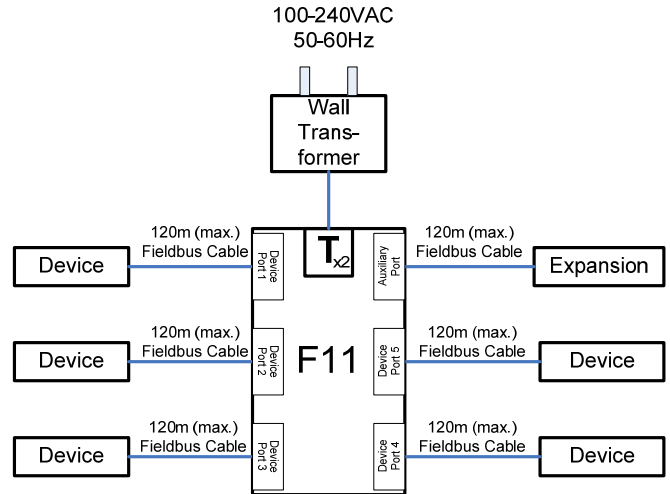


Note: The F11 Power Hub is not intended to be used in a permanent installation.

Specifications

Fieldbus Connectors	Six sets, pluggable screw terminal with two hold-down screws
Wire capacity	12-28 AWG
Device Port Rated Current	30mA
Device Port Short Circuit Protection	Continuous protection against damage
Total Current for all Device Ports and Auxiliary Port (for specified operation)	315mA maximum
Auxiliary Port Short Circuit Protection	Continuous protection against damage
Power Adapter Input Voltage	100-240VAC (50-60Hz)
Power Adapter Output Voltage	24V (nominal)
Operating Temperature	0 to +50°C
Mounting (optional)	35mm DIN rail
Weight	146g
Case Material	Lexan Polycarbonate
Fieldbus Device Cables (5)	1m Shielded twisted pair
National Instruments cable	1m DB9 to prepared wires

Connections

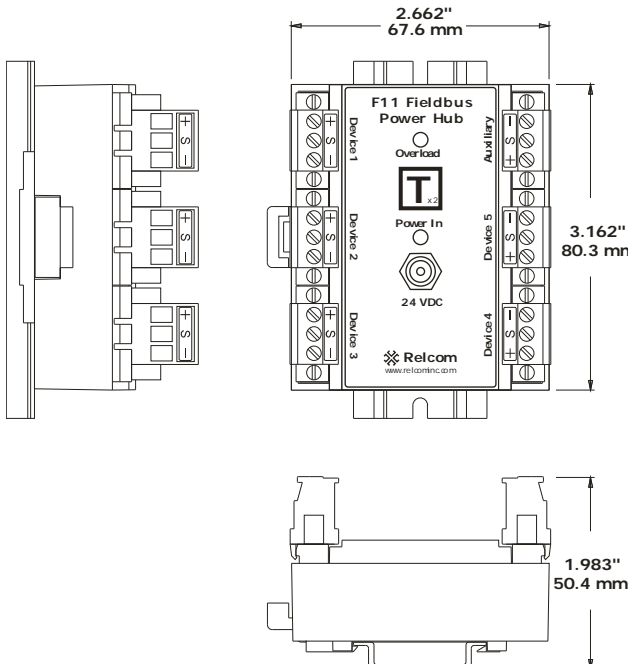


F11 Connection Diagram

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



Dimensions



Accessories

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

Certification



Product specifications are subject to change without notice.