The Relcom Fieldbus Labkit (F11-Labkit) is a convenient kit containing the Relcom Fieldbus Power Hub (F11) and a pair of cables (FCS-A05). Ideal for benchtops, 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 a fieldbus device 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. Pluggable 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 datasheet EPS FCS-A11.

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, 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.

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

**Wall-mounted Bulk Power Supply**
- Input voltage: 100 - 240V AC, 50/60Hz
- Output voltage: 24V DC (nominal)

**Fieldbus Device Cable**
- 1m - shielded twisted pair

**National Instruments Cable**
- 1m - DB9 to prepared wires

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

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