

Type code**BP-FBPS-1.30.1**

Fieldbus battery for auxiliary power during fieldbus segment commissioning

Features

- Adjustable output 15 ... 30 V/max.1 A
- 8 hours operation at 500 mA without recharging
- IP 54 - Rain and splash proof
- Rugged housing for outdoor use
- For PROFIBUS PA and FOUNDATION Fieldbus H1
- Low battery and overload indication
- Output current meter
- Selectable terminators for creating any type of termination
- All in one - no additional components required

Function

Validation of device communication and fieldbus installation testing can be done even when the line voltage or DCS system is not available. This allows on-site personnel to verify the quality of the installation at early stages.

The fieldbus battery features a rugged housing for indoor/outdoor use during commissioning of fieldbus segments. The battery includes a fieldbus power conditioner. Its output voltage is adjustable to match the value of the later used fieldbus power supply. A battery charger is included.

The fieldbus battery complements the FieldConnex Mobile Advanced Diagnostic Module or any other equipment available for testing any fieldbus installation.

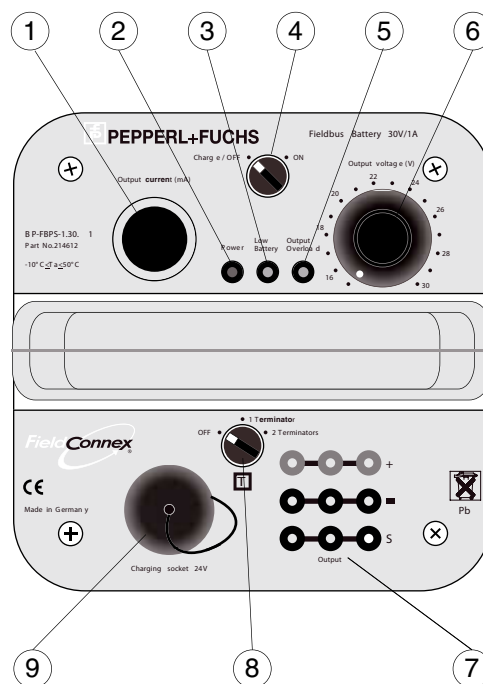
Technical data

Supply	
Battery charger	110 ... 240 V AC , 50/60 Hz
Charging voltage	24 V DC
Connections	
Battery charger	DC Round socket
Fieldbus interface	
Connection	banana socket 4 mm
Rated voltage	15 ... 30 V DC , adjustable
Rated current	1 A
Host-side	banana socket 4 mm
Terminating resistor	2x 100 Ω on/off switchable via rotary switch
Diagnosis connection	banana socket 4 mm
Indicators/operating means	
LED POWER	green: Power on
LED Low Battery	red: low charge condition
LED Overload	red: overload, load current > 1.15 A typ.
LED display	output current
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Accumulator	
Capacitance	7200 mAh
Charging time	8 ... 16 h
Standard conformity	
Fieldbus standard	IEC 61158-2, ISA S 50.02 part 2
Ambient conditions	
Ambient temperature	-10 ... 50 °C (263 ... 323 K)
Storage temperature	-15 ... 50 °C (258 ... 323 K)
Relative humidity	< 95 % non-condensing
Mechanical specifications	
Housing material	fiberglass reinforced polyester
Housing width	192 mm
Height of housing	259 mm
Housing depth	192 mm
Protection degree	IP54
Mass	approx. 7 kg
Certificates and approvals	
Fieldbus FOUNDATION registration	Integrated Power Conditioner with FF831 approval

Electrical connection

Function

Component identity

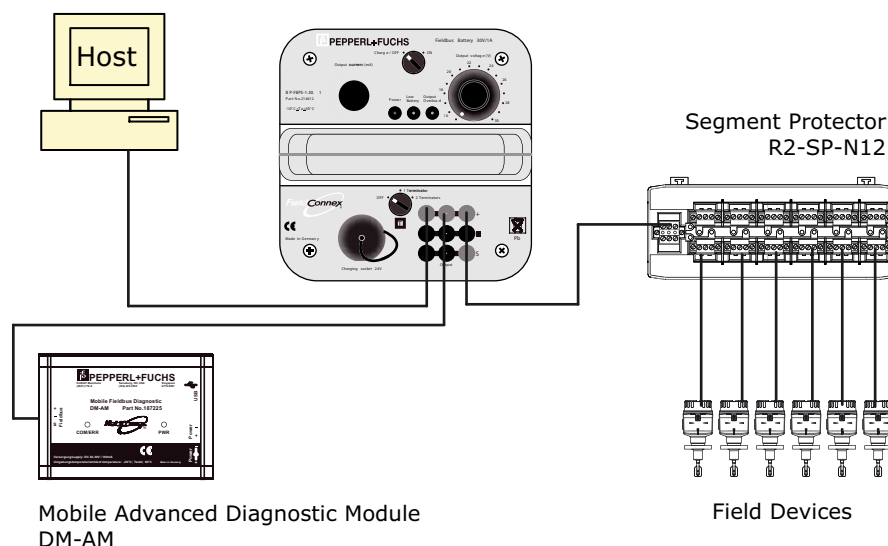


Description:

- 1 Display: output current
- 2 LED: power
- 3 LED: low battery
- 4 Switch: charge Off / On

- 5 LED: output overload
- 6 Regulator: output voltage
- 7 Terminals: power output
- 8 Terminator switch: OFF/1 Terminator/ 2 Terminators active
- 9 Charging socket 24 V

Exemplary system topology



Accessories / Scope of delivery

- Battery charger 240 V/ 24 V/ 14 W: AC plug for EU, USA, UK, Australia
- ACC-BP-C.25: two cables 2.5 m long with banana plugs on one side, wire end sleeves on the other