



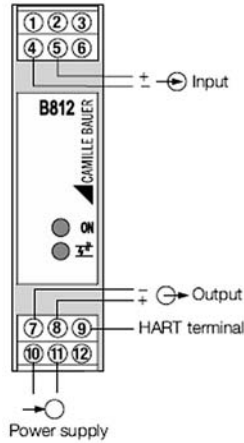
Sineax B 812 and B 840 Loop Power Supplies

B 812 Loop Power Supplies with Signal Transfer Output

- 17 VDC Output
- HART Communications Standard
- Diagnostic LEDs for Operational Status & Loop Fault
- Removable Plugs for Easy Hookup

Specifications

- Input**
4-20 mA
- Output**
4-20 mA, 17 VDC no load
- Indicators**
Green power LED
Red LED for open or short circuit monitoring
- Source Resistance**
350 Ω
- Burden**
Permitted load: 750 Ω, 550 Ω with HART
- Temperature**
Operation: -20 to 50°C
Storage: -20 to 70°C
- Dielectric Test**
3600 VAC
- Power**
20-70 VAC/VDC or 60-265 VAC/VDC
45-400 Hz for AC



ISO 9001 : 2000

B 812



Removable Plugs for Easy Hookup

Description and Features

The B 812 power supply unit provides DC power for 2-wire transmitters and transfers the measured variable unchanged to the electrically isolated output. Standard FSK communication is used with intelligent HART capable 2-wire transmitters.

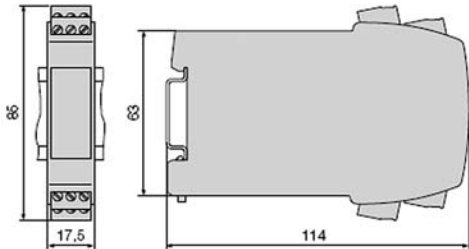
Provision is made for monitoring the measurement/supply to detect short and open-circuits. Either of these faults is signalled by the red LED.

Models

Model	Output	Power
812-155110	17 V @ 0 mA 4-20 mA, HART	20-70 VAC/VDC
812-155128	17 V @ 0 mA 4-20 mA, HART	60-265 VAC/VDC

See www.apicb.com for technical data sheet or consult factory.

API maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.

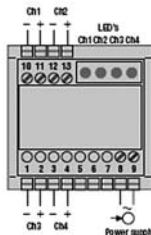


B 840 Four Channel Loop Power Supplies

- 4 Isolated Power Supplies in One Package
- 24 VDC Output Limited to 25 mA
- LED Monitor for Each Channel

Specifications

- Input**
Four independent 4-20 mA loops
- Supply Voltage**
24 V at 20 mA
- Burden**
Permitted load: 750 Ω
- Temperature**
Operation: -10 to 55°C
Storage: -40 to 70°C
- Power Supply**
24 VAC, 115 VAC, or 230 VAC



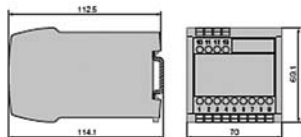
ISO 9001 : 2000



The B 840 provides DC power for 2-wire 4-20 mA transmitters. There are four power supply outputs available. Each power supply output is monitored by a green LED. The corresponding green LED is continuously lit when the measuring/supply circuit is closed.

Model	Output	Power Supply
840-147-464	4 Channels, 24 V @ 20 mA	24 VAC
840-147-472	4 Channels, 24 V @ 20 mA	115 VAC
840-147-480	4 Channels, 24 V @ 20 mA	230 VAC

See www.apicb.com for technical data sheet or consult factory.



Transmitter Power Supply Unit SINEAX B812

The SINEAX B812 unit supplies all commercially available 2-wire field transmitters. It is one of the smallest products on the market (l: 114 mm, w: 17.5 mm, h: 69.2 mm). Nevertheless, we did not make any compromise in relation to safety. The unit embodies galvanic isolation between all circuits and complies with the whole range of EN 61 010 or IEC 1010 requirements. The intrinsically safe design connects to all field instruments in explosive gas or dust atmospheres (Zones 0, 1, 2 or 20, 21, 22).

Advantages

- The narrow design facilitates high packing density
- Wide area power packs permit world-wide application
- HART communication for intelligent transmitters without any surcharge
- Monitoring of input circuit and indication of errors

Function

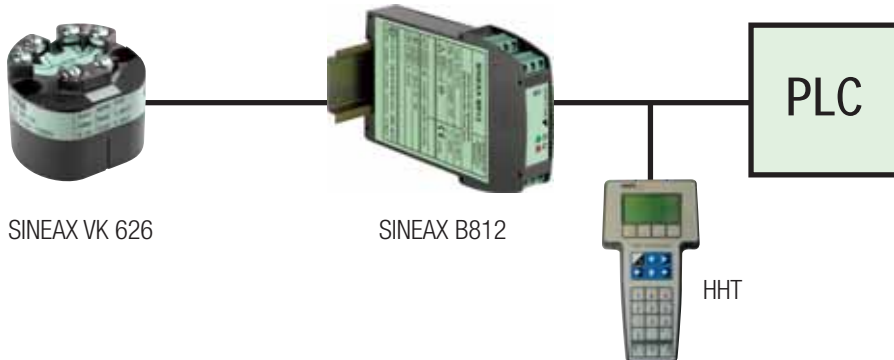
The B812 unit supplies 2-wire transmitters and provides the 4 – 20 mA signal galvanically isolated at the output. The separation is HART penetrable, i.e. you can parameterize or read out intelligent transmitters via HART or customized protocols. Two power supply versions with wide area power packs ensure the connection to all common power supplies.

Applications

Temperature measurement



Temperature measurement HART



Angle of rotation measurement



Position feedback measurement



Technical data

Mechanics

Housing width: 17.5 mm
 Flammability class: UL 94 V0
 Ambient temperature: -20...+55 °C

Input

Supply voltage at 20 mA: 18 V
 No-load voltage: 26 V
 Short-circuit current: 25 mA
 Signal: 4...20 mA
 Short-circuit/breakage monitoring with LED

Output

Signal: 4...20 mA
 Load: 750 Ω

Power supply

Low: 20...70 V AC/DC
 High: 50...265 V AC/DC
 High Ex: 50...125 VDC / 265 VAC

Explosion protection

Type of protection: [Ex ia] IIC Ex II (1) GD
 Uo: 28 V, Io: 93 mA, Po: 651 mW



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