SGD ADPT-420

2 Channel 4-20mA Galvanic Isolation module for PanelPilot-compatible displays

PanelPilot

Features

- Measures 4 - 20mA current loops (nom. loop voltage 24vdc)
- 2 separate, isolated, channels
- Powered from SGD meter
- Simple mounting on back of SGD header
- Application download from PanelPilot website
- Works with any PanelPilot voltage configuration
- Operating voltage of 12V-30V d.c.
- Does not need floating PSU with respect to current loops
- Each current loop channel is isolated from each other as well as the PanelPilot

PanelPilot display not included

This add-on module interfaces directly with any PanelPilot display from the list below. It provides dual channel 4-20mA galvanic isolation.

Specifications

	Minimum	Typical	Maximum	Unit
Resolution (internal and displayed)*		0.1		%
Supply voltage	6	12-24	30	V d.c.
Supply current**	35		190	mA
Number of Isolated Input Channels**		2		
Measurement Range (24vdc Loop Powered)		4-20		mA
Loop volt drop	0		5.0	V

*   Depending on user calibration settings
**   Voltage dependent. See PanelPilot Datasheet
*** Galvanic Isolation

Ordering Information

SGD ADPT-420 add-on board	**SGD ADPT-420**
PanelPilot-compatible displays - see PanelPilot.com	**SGD 24-M** **SGD 28-M** **SGD 35-M**

Hardware

The SGD ADPT-420 board takes its power from the host SGD. Connect the 14-way socket to the SGD, as shown. The current loops are wired to the I1+ and I1-, I2+ & I2- via the screw terminal block.

The system can be powered via the USB port at the SGD for initial application upload but do not calibrate or run with USB supply as this falls outside the operating voltage range of the SGD ADPT-420.