

Signal Enhancer

Geotech Probe Pal Signal Enhancer

The Geotech Probe Pal is an accessory that has been designed to aid in interfacing loop powered, 4-20 mA sensors. A low pass filter is provided to reduce high frequency noise entering the controllers current input section. A reverse voltage protection circuit has also been incorporated into the Probe Pal.

FEATURES

- Voltage Protection
- Reverse high frequency noise filter
- Designed to be intrinsically safe

INSTALLATION & OPERATION

Connection:

1. Connect 4-20mA loop signal wire to one white wire on the Probe Pal.
2. Connect other white wire to 4-20 mA input on control.
3. Connect Probe Pal black wire to current loop sensor supply common.

Place Probe Pal near controller for optimal results.

When powering Probe Pal with an off-the-shelf controllers sensor supply, make certain controllers sensor supply is not overloaded (see maximum ratings) when the loop current is 4-20 mA.

For proper system operation, connect sensor ground wires to system chassis ground near controller or to a suitable ground lug. Make certain system wiring is in accordance with all local codes.

NOTE: CONSULT YOUR OPERATION/INSTALLATION MANUAL FOR THE REQUIREMENTS FOR THE SPECIFIC CONTROLLER BEING USED.



SPECIFICATIONS

MAXIMUM RATINGS

Output Power	375 mW
Input Voltage	8-18 Volt DC
Input Current	75 mA
Input Power Maximum	1 W
Filter Capacitance	0.01 uF

PHYSICAL

Size	2 x 2 x ¾ inches (5 x 5 x 1.9 cm)
Weight	8 ounces (227 g)

ENVIRONMENTAL

Ambient Operating Temperature	-40 to 60°C
Storage Temperature	-55 to 100°C
Humidity	5 to 95% Relative NC
Shock	TBD
Vibration	TBD

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