VARITRANS P27000

Product Data Sheet

P 27000 H1

Universal Isolated Signal Conditioner

CALIBRATED RANGE SELECTIONS	VOLTAGE INPUT SPAN SELECTION	CURRENT INPUT SPAN SELECTION	VOLTAGE INPUT RESISTANCE
480	**20 mV to 200 V; unipolar/bipolar**	**0.1 to 100 mA; unipolar/bipolar**	**Approximately 1 Mohm**

Knick P 27000 H1 is an adjustable VariTrans universal signal conditioner with three-port galvanic separation. It provides calibrated selection of 480 input/output range combinations for voltage and current signals, including unipolar and bipolar ranges. The H1 version uses pluggable screw terminals, distinguishing it from the fixed-terminal F1 version.

01 TECHNICAL DATA

Calibrated range selections	480
Voltage input span selection	20 mV to 200 V; unipolar/bipolar
Current input span selection	0.1 to 100 mA; unipolar/bipolar
Voltage input resistance	Approximately 1 Mohm
Current input resistance up to 5 mA	Approximately 100 ohm
Current input resistance above 5 mA	Approximately 5 ohm
Output selections	20 mA, 5 V, 10 V; 4-20 mA, 1-5 V, 2-10 V
Current-output load	Up to 12 V; 600 ohm at 20 mA
Voltage-output load	Up to 10 mA; 1 kohm at 10 V
Gain error	Less than 0.08% of measured value

Knick P27000 User Manual TA-251.100-KNXX06, English section; adjustable H1 specifications.

02 ADDITIONAL PRODUCT DATA

Cutoff-frequency selection	Above 10 kHz or below 10 Hz
Input-output test voltage	5 kV AC
Supply voltage	22 to 230 V AC/DC +/-10%
Operating temperature	-10 to 70 C
Enclosure protection	IP20

03 PRODUCT FUNCTION

Voltage spans can be selected from 20 mV to 200 V and current spans from 0.1 to 100 mA. The module provides switchable current or voltage outputs and a selectable fast or filtered response. Its broad-range supply is 22 to 230 V AC/DC plus or minus 10 percent, and the enclosure is IP20 for stationary, weather-protected installation.

04 SYSTEM COMPATIBILITY

Match the output load to the selected current or voltage mode. Current output permits up to 12 V burden, while voltage output permits up to 10 mA. Set the fast or filtered cutoff position deliberately so that response time and noise behavior suit the connected loop.

05 REFERENCE

Knick P27000 User Manual TA-251.100-KNXX06, English section; adjustable H1 specifications.

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