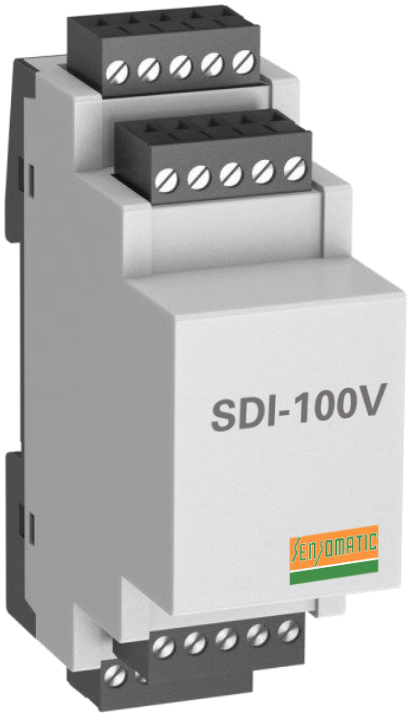
SENSOMATIC

SDI-100V

Redefining Instrumentation

SDI-100V Analog Load Cell Amplifier with Voltage Output is a new general purpose amplifier solution for in-line amplification of any full bridge strain gauge type sensor with mV/V range output. The new strain gauge signal conditioner combines precision and ease of integration with a total error of 0.05% of full scale reading. The *SDI-100V* Load Cell Analog Strain Gauge Amplifier features an heavy duty ABS din-rail housing for industrial environment applications.



Features

- High conversion rate.
- Internal Span and Offset Potentiometers
- Selectable reverse polarity
- Bipolar output / differential input
- Voltage only Signal Conditioner
- Compatible with any full bridge strain gauge sensor
- Din-rail mount ABS enclosure with IP40 rating.

SPECIFICATION

ELECTRICAL	Voltage	: 24VDC
	Current	: 600mA
PERFORMANCE	Excitation	: 10VDC
	No. of Cells	: 8 at 350 Ω
	Full Scale Range	: ±100mV bi-polar
	Conversion Bandwidth	: 10KHz
	Nonlinearity	: ±0.05% of FSR
ANALOG OUTPUT	Voltage Output	: ±10V
	Linearity	: 0.05% (or better) of full scale
ENVIRONMENTAL	Operating Temperature	: −10°C to +45°C (14°F to 104°F)
	Storage Temperature	: −10°C to +70°C (−4°F to 158°F)
	Relative Humidity	: 40-90% RH, non-condensing
ENCLOSURE	Material	: Heavy Duty ABS
	Dimensions	:
	Mounting	: Din-rail mount
	Protection	: IP40 standard
	Wiring Connections	: 3.5mm Pluggable screw terminal