Honeywell

Model U2W

Bridge Based Sensor In-Line Amplifier



DESCRIPTION

The Model U2W amplifier supplies a highly regulated bridge excitation voltage for the transducer and converts the millivolt signal of the transducer to a 4 mA to 20 mA two-wire current output signal.

FEATURES

- Strain gage sensor amplifier
- 8 Vdc to 32 Vdc supply voltage
- NEMA 4 or IP66 housing
- Constant voltage mode: 5 Vdc @ 2 mA max. (3K to 10K Ohm)
- Constant current mode: 0.5 mA with 3 V compliance (2K to 6K Ohm)
- Lightning protection
- 4-20 mA two-wire analog output
- Increases signal-to-noise ratio in noisy environments
- Effects of voltage drops in excitation sources are eliminated
- Signals may be sent to the data systems from low impedence sources

Model U2W

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Number of channels	1
Case material	Plastic or painted Aluminum
Mounting	Use #6 or #8 screws

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-29 °C to 70 °C [-20 °F to 158 °F]
Sealing	IP66 or NEMA 4
Lightning protection	Yes

TRANSDUCER INTERFACE

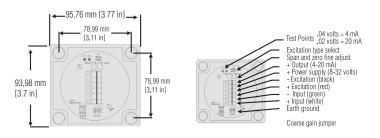
Characteristic	Measure
Transducer type	Bridge-based sensor
Transducer bridge excitation and resistance	
Constant voltage mode	5 Vdc @ 2 mA max.; 3K ohm to 10K ohm
Constant current mode	0.5 mA with 3 V compliance; 2K ohm to 6K ohm

AMPLIFIER CHARACTERISTICS

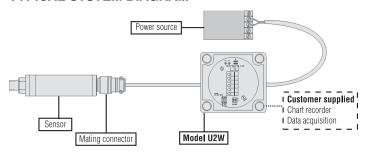
Characteristic	Measure
Supply voltage	8 Vdc to 32 Vdc
Frequency response	1 kHz @ 2 mV/V
Zero adjustment range	±15 % fine
Span adjustment range	Jumper selectable and ±20 % fine adjustment
Shunt calibration	Solid state relay on board
Signal output	4 mA to 20 mA (two-wire)

Not RoHS compliant

MOUNTING DIMENSIONS AND CHARACTERISTICS



TYPICAL SYSTEM DIAGRAM



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- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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