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
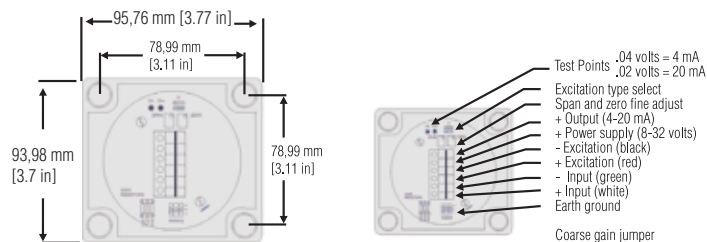
TYPICAL SYSTEM DIAGRAM
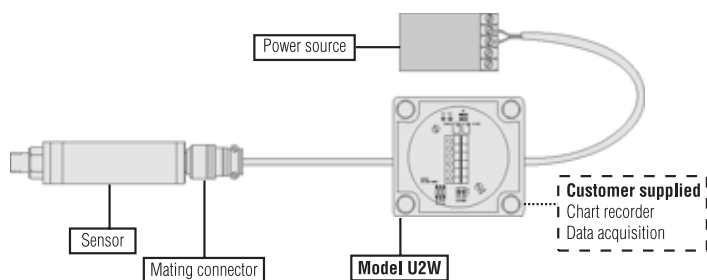
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For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847
Email inquiries to info.sc@honeywell.com

⚠️ **WARNING**
PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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

⚠️ **WARNING**
MISUSE OF DOCUMENTATION

- 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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