

## Model UV

### Bridge Based Sensor In-Line Amplifier



#### DESCRIPTION

The Model UV amplifier supplies a highly regulated bridge excitation voltage for the transducer and converts the millivolt signal of the transducer to a  $\pm 10$  Vdc signal. The Universal In-line features two selectable excitation voltages, programmable gain settings, a wide adjustment range on the zero, and a buffered solid-state shunt cal relay for quick calibration.

#### FEATURES

- Strain gage sensor amplifier
- $\pm 5$  Vdc three-wire output
- 3 V or 5 V excitation voltages @ 70 mA
- 11 Vdc to 28 Vdc supply voltage
- NEMA 4 housing
- 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 impedance sources

# Model UV

## 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 | -15 °C to 71 °C [5 °F to 160 °F] |
| Sealing                | IP66 or NEMA 4                   |

## TRANSDUCER INTERFACE

| Characteristic        | Measure                |
|-----------------------|------------------------|
| Transducer type       | Bridge-based sensor    |
| Transducer excitation | 3 Vdc or 5 Vdc @ 70 mA |

## AMPLIFIER CHARACTERISTICS

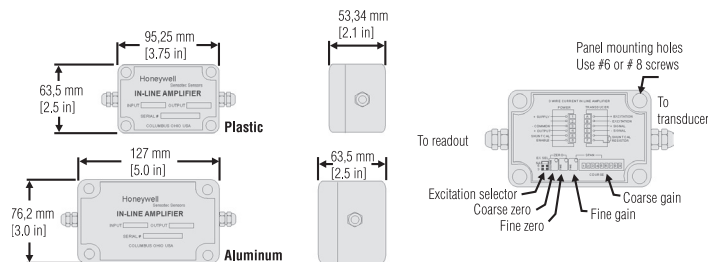
| Characteristic                  | Measure   |
|---------------------------------|---|
| Supply voltage                  | 11 Vdc to 28 Vdc  |
| Current draw                    | 50 mA   |
| Frequency response (-3 dB)      | dc: 7000 Hz with 350 ohm bridge<br>dc: 5000 Hz with 5000 ohm bridge |
| Rise time (0 % to 90 %)         | 54 $\mu$ s with 350 ohm bridge<br>78 $\mu$ s with 5000 ohm bridge   |
| Zero adjustment range, coarse   | $\pm 50$ %  |
| Zero adjustment range, fine     | $\pm 15$ %  |
| Span adjustment range           | 0.75 mV/V to 13.3 mV/V<br>$\pm 25$ % fine adjustment                |
| Linearity                       | 0.02 % of full scale  |
| Shunt calibration               | Solid state relay on board  |
| Output                          | $\pm 5$ Vdc   |
| Output current                  | 2 mA max.   |
| Signal-to-noise ratio           | 65 db   |
| dc power supply rejection ratio | > 110 db  |

Not RoHS compliant

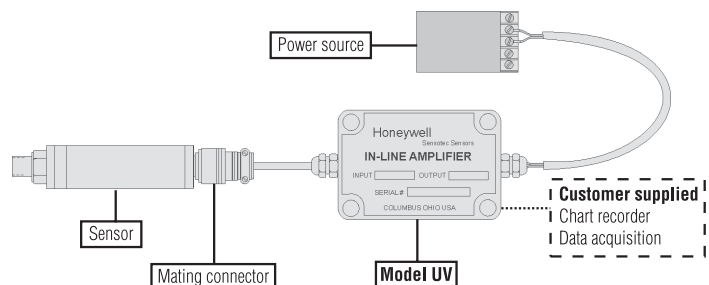
## OPTION CODES

| 2-pole active filter | Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see <a href="http://sensing.honeywell.com/TMsensor-ship">http://sensing.honeywell.com/TMsensor-ship</a> for updated listings. |         |
|----------------------|--|---------|
| Filter setting       | 1 Hz   | 50 Hz   |
|                      | 3 Hz   | 100 Hz  |
|                      | 5 Hz   | 300 Hz  |
|                      | 10 Hz  | 500 Hz  |
|                      | 20 Hz  | 1000 Hz |
|                      | 30 Hz  |         |

## MOUNTING DIMENSIONS AND CHARACTERISTICS



## TYPICAL SYSTEM DIAGRAM



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**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

 **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 datasheet 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.**

## Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's test and measurement products, call **+1-614-850-5000**, visit **<http://measurementsensors.honeywell.com>**, or e-mail inquiries to **[info.tm@honeywell.com](mailto:info.tm@honeywell.com)**

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**Honeywell**

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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