### Honeywell

# **Model CA2/CA3**

## Charge Amplifier



#### **DESCRIPTION**

Charge-mode piezo-electric transducers require charge amplifiers to convert their output to useful levels. Honeywell in-line charge amplifiers are versatile and convenient solutions for the use of charge-mode piezo-electric transducers.

#### **FEATURES**

- Piezo-electric accelerometer amplifier
- ±15 Vdc or 24 Vdc to 32 Vdc supply
- NEMA 4 housing
- Programmable sensitivity
- ±5 V RMS max. output

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#### **POWER REQUIREMENTS**

| Characteristic | Measure                     |
|----------------|-----------------------------|
| Input voltage  | ±15 Vdc or 24 Vdc to 32 Vdc |
| Input current  | 20 milliamperes             |

#### **AMPLIFIER CHARACTERISTICS**

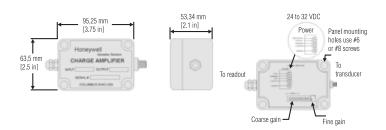
| Characteristic                   | Measure                                |
|----------------------------------|--|
| Sensitivity                      | Programmable (0.05 mV/pc to 6.4 mV/pc) |
| Input range                      | 780 pc to 100000 pc                    |
| Output                           | ±5 V RMS max.                          |
| Frequency response,<br>Model CA2 | 3 Hz to 30 kHz (-3 db)                 |
| Frequency response,<br>Model CA3 | dc to 30 kHz                           |
| Time constant, Model CA2         | 50 milliseconds                        |
| Time constant, Model CA3         | 2000 seconds                           |
| Short circuit protected          | +output to -output                     |

#### **PHYSICAL CHARACTERISTICS**

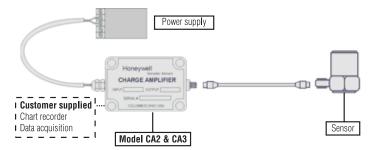
| Characteristic             | Measure  |
|----------------------------|--|
| Size (L x W x H)           | 9,7 cm x 6,4 cm x 5,6 cm<br>[3.8 in x 2.5 in x 2.2 in] |
| Temperature, operating     | 0 °C to 82 °C [32 °F to 180 °F]                        |
| Environmental protection   | Moisture and dust resistant painted aluminum box       |
| Method of connection input | Terminal strip inside of box                           |
| Sensor connection          | Miniature coaxial connector                            |
| Mounting                   | Recessed screws, outside of the sealed volume          |

Not RoHS compliant

#### **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.

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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



• 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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