Honeywell

Power Supplies

Test & Measurement Sensors

DESCRIPTION

Honeywell provides a wide range of accessories for our test and measurement sensor products, which are designed to meet additional requirements for most customer applications.

Accessories available to complement Honeywell's test and measurement sensors include two types of power supplies: Model CC2 IEPE accelerometer power supply and a dc power supply for amplified transducers.

For use with IEPE-based accelerometers, the Model CC2 is battery powered with a low battery indicator. The power supply uses 9 Vdc batteries and has an adjustable drive current.

Honeywell's dc power supply provides regulated voltages ranging from 10 Vdc to 28 Vdc and output currents to 600 mA. Terminal strip connections eliminate soldering. Features include short-circuit protection, encapsulated construction and conservative design aimed at providing long-term stability. Power supplies may be used in series. No derating or heat sinking required.

If you don't see exactly what you need listed below, or have special requirements for your particular application or operating environment, please contact Honeywell for assistance.

MODEL CC2 FEATURES

- Constant current power supply
- Used with IEPE accelerometers
- Adjustable drive current
- Battery or ac powered
- 10 V output

DC POWER SUPPLY FEATURES

- Regulated
- Miniature size
- Terminal-strip connection
- Long-term stability
- Short-circuit construction

Power Supplies

MODEL CC2 POWER REQUIREMENTS

Characteristic	Measure
Batteries	9 V alkaline (3)
Battery life	110 hrs @ 2 mA
Low battery indicator	LED lights at approximately 17.5 V

MODEL CC2 INPUT CHARACTERISTICS

Characteristic	Measure
Current to transducer	Adjustable 1.5 mA to 10 mA
Input connector	Miniature coaxial

MODEL CC2 OUTPUT CHARACTERISTICS

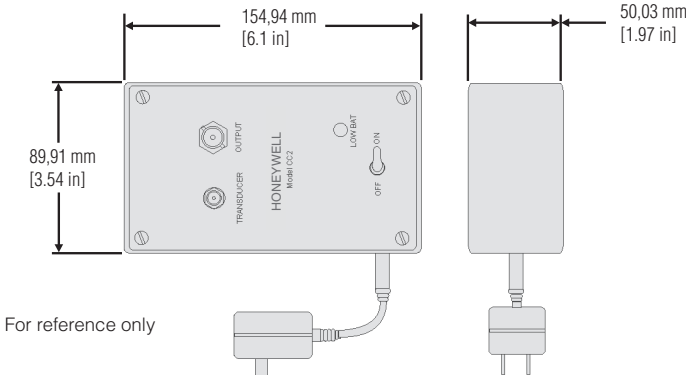
Characteristic	Measure
Gain	Unity
Coupling time constant	2 seconds (1 Meg ohm load)
Load impedance	>100K
Output connector	BNC
Output	10 V peak to peak max.

MODEL CC2 PHYSICAL CHARACTERISTICS

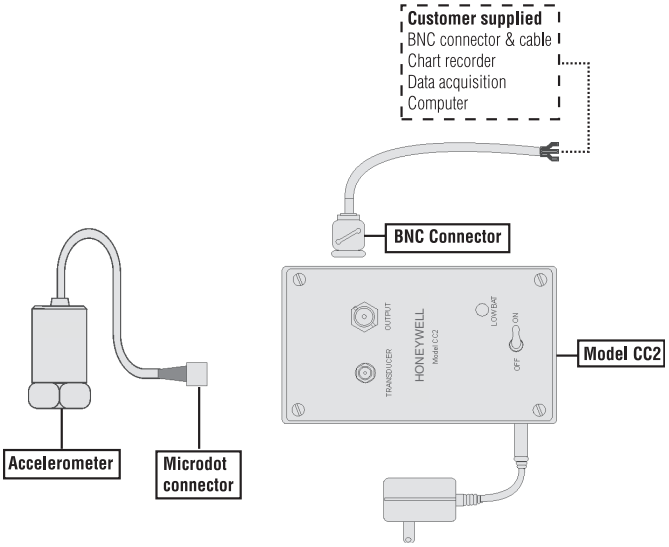
Characteristic	Measure
Size (L x W x H)	13 cm x 9,4 cm x 5,7 cm [5.12 in x 3.7 in x 2.24 in]
Temperature	0 °C to 66 °C [32 °F to 150 °F]

Not RoHS compliant

MODEL CC2 MOUNTING DIMENSIONS AND CHARACTERISTICS



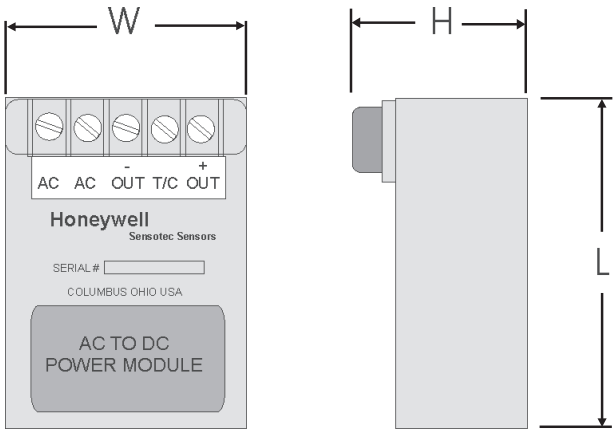
MODEL CC2 TYPICAL SYSTEM DIAGRAM



DC POWER SUPPLY ORDER CODES

Order code	Output voltage	Output current	Height (H)	Length x width (L x W)
AA951	10 Vdc	240 mA max.	3,6 cm [1.4 in]	6,4 cm x 8,9 cm [2.5 in x 3.5 in]
AA952	24 Vdc	600 mA max.	6,0 cm [2.375 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]
AA953	±15 Vdc	100 mA max.	3,5 cm [1.375 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]
AA954	28 Vdc	500 mA max.	6,0 cm [2.375 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]
AA955	28 Vdc	300 mA max.	4,1 cm [1.625 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]
AA956	28 Vdc	150 mA max.	3,5 cm [1.375 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]
AA957	28 Vdc	80 mA max.	3,5 cm [1.375 in]	8,9 cm x 6,4 cm [3.5 in x 2.5 in]

DC POWER SUPPLY MOUNTING DIMENSIONS AND CHARACTERISTICS



For reference only

DC POWER SUPPLY PERFORMANCE

Characteristic	Measure
Input voltage	105 Vac to 125 Vac, 47 Hz to 420 Hz, single phase
Output specifications	see order codes table
Output voltage trim adjustment	Outputs are factory set to ±1 % of nominal output voltage. Single output models may be trimmed to the nominal output voltage with an external trim resistor
Polarity	Either positive or negative terminal of a single output module may be grounded. Dual output modules have a positive/common/ negative output terminal configuration
Impedance	0.07 ohm at 1 kHz (approx.) 0.2 ohm at 10 kHz (approx.)
Regulation, line	±0.05 %
Regulation, load	±0.1 %
Ripple	1 mV RMS
Optional 230 Vac input	For operation on an input of 230 Vac, 46 Hz to 420 Hz

DC POWER SUPPLY ENVIRONMENTAL SPECS

Characteristic	Measure
Temperature, ambient operating	32 °C to 66 °C [0 °F to 150 °F]
Temperature, storage	-55 °C to 85 °C [-67 °F to 185 °F]
Temperature error	0.008 % full scale/°F nominal

Not RoHS compliant

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.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

⚠ 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 **www.honeywell.com/sensotec,** or e-mail inquiries to **info.tm@honeywell.com**

Sensing and Control
Honeywell
1985 Douglas Drive North
Golden Valley, MN 55422
www.honeywell.com

Honeywell

008861-1-EN IL50 GLO Printed in USA.
September 2010