

Pressure Transducers

H1000 150 psig Sensor

PT1 Series

FEATURES

- Ratiometric analog output voltage
- Piezoresistive sensor element
- Electronic (ASIC) with wide application range
- Gage or absolute exempt

TYPICAL APPLICATIONS

- Air conditioning systems in automotive applications
- Industrial applications
- Medical applications
- Building management
- Automation



The PT1 is a general-purpose, compact pressure transducer that provides greater processing power utilizing an analog output with a 0.5 Vdc to 4.5 Vdc speed. This sensor is a customizable, cost-effective alternative for lower-volume applications that has the flexibility for customer-defined fitting design, pressure range and adjustable characteristic pressure curve, and accuracy.

The sensor was designed for use in a variety of sensing applications most commonly found in today's vehicles to assist with fuel pressure, EGR, engine pollution reduction, and climate control systems.

⚠ 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 product sheet is for reference only. Do not use this document as a product installation guide.
- 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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ELECTRICAL SPECIFICATIONS

Operating supply voltage	5 Vdc \pm 0.5 Vdc
Input current	< 10 mA
Output current	\pm 2 mA
Overvoltage protection	18 Vdc
Reverse polarity protection	-16 Vdc
Response time	< 10 ms
Radiated immunity	100 V/m
Output resolution	9 bit ... 10 bit

ENVIRONMENTAL SPECIFICATIONS

Temperature ranges	
Operating	30 °C to 130 °C [86 °F to 266 °F]
Storage	-40 °C to 150 °C [-40 °F to 302 °F]
Operating pressure	0 psig to 150 psig
Overpressure	225 psig
Burst pressure	375 psig

OPTIONAL CONDITIONS

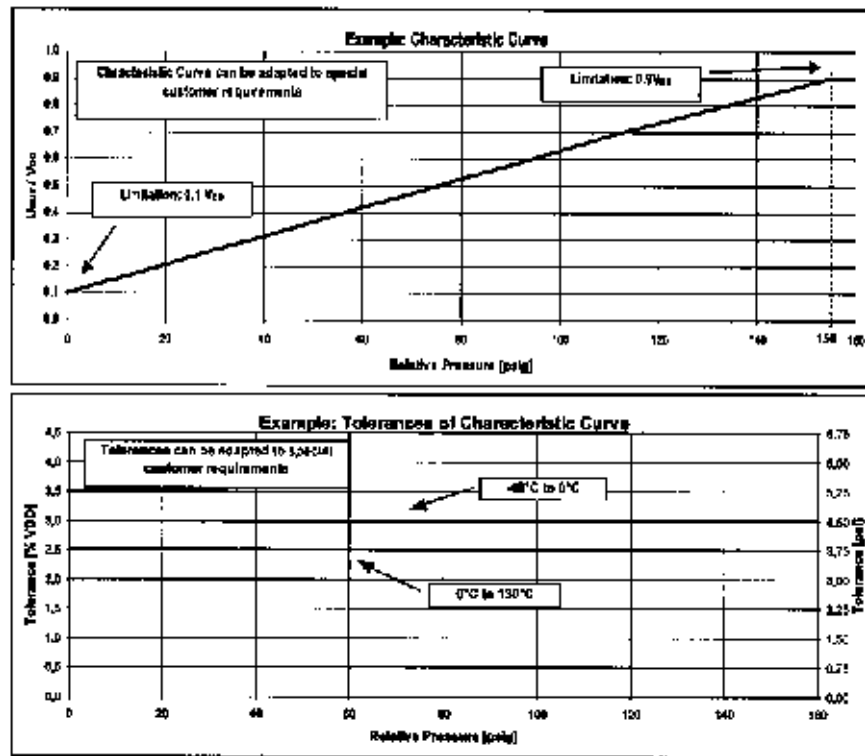
- Customer defined fitting design possible
- Wide customer defined pressure range
- Adjustable characteristic pressure curve
- Accuracy according to specific customer requirements

Pressure Transducer

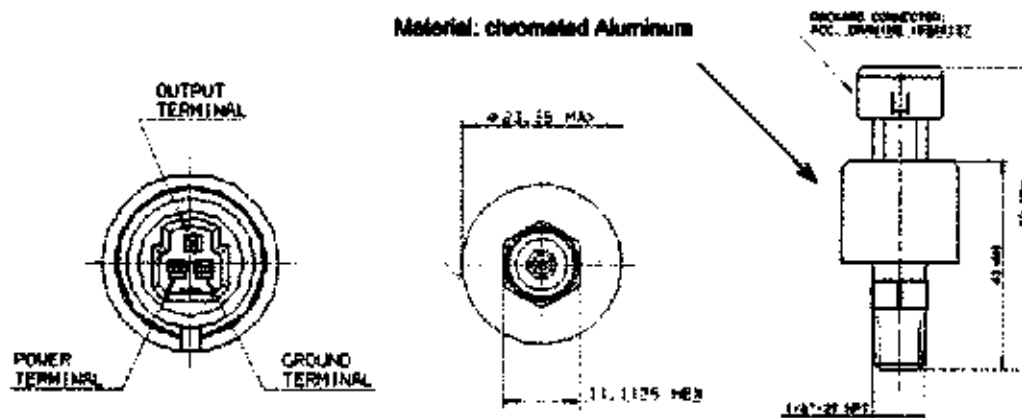
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PT1 – CHARACTERISTIC CURVES



PT1 – DIMENSIONS



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WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. **The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

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.

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.

For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

1-800-537-6945 USA/Canada

1-815-235-6847 International

FAX

1-815-235-6545 USA

INTERNET

www.honeywell.com/sensing

info.sc@honeywell.com

Honeywell

Sensing and Control

www.honeywell.com/sensing

Honeywell

11 West Spring Street

Freeport, Illinois 61032