

Model LCP

Pressure Transducer



DESCRIPTION

The LCP stainless steel device is designed for pressure applications that involve measurement of hostile media in harsh environments and will accommodate any media that will not adversely attack 304 or 316 stainless steel wetted parts.

The LCP stainless steel device is a rugged and reliable transducers for use in a wide variety of pressure sensing applications where corrosive liquids or gases are monitored.

FEATURES

- 4 mA to 20 mA, two-wire output
- 5 psig/psia to 5000 psig/psia range
- 1 % accuracy

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PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Pressure ranges (gage)	5, 10, 15, 30, 50, 100, 200, 300, 500 psig
Pressure ranges (absolute)	15, 30, 50, 100, 200, 300, 500, 1000, 2500, 5000 psia
Linearity	±0.5 % full scale
Hysteresis	±0.03 % full scale
Non-repeatability	±0.03 % full scale
Output (std)	4 mA to 20 mA
Resolution	Infinite
Response time	5 ms

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-40 °C to 85 °C [-40 °F to 185 °F]
Temperature, compensated	-9 °C to 85 °C [15 °F to 185 °F]
Storage temperature	-40 °C to 85 °C [-40 °F to 185 °F]
Temperature effect, zero	±1.5 full scale ¹
Temperature effect, span	±1.5 full scale ¹

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Strain gage type	Semi-conductor
Supply voltage	10 Vdc to 24 Vdc
Insulation resistance	100 mOhm @ 50 Vdc
Electrical termination (std)	Cable version (0.61 m [2 ft] standard cable length)
Shock	100 g [0.22 lb] for 11 ms
Life	1 million cycles

MECHANICAL SPECIFICATIONS

Characteristic	Measure
Media	Gases and liquids compatible with wetted parts
Overload, safe	200 % over capacity
Overload, burst	>200 % over capacity
Pressure port	1/4-18 NPT male
Wetted parts material	316 stainless steel
Case material	304 stainless steel

RANGE CODES

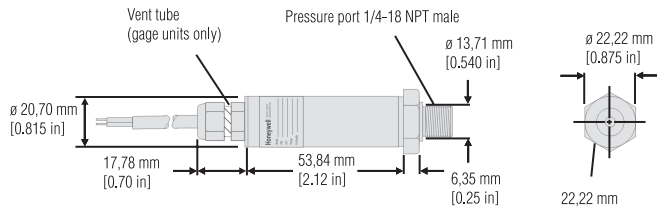
Range Code	Available ranges
AT	5 psig
AV	10 psig
BJ	15 psig/a
BM	30 psig/a
BN	50 psig/a
BR	100 psig/a
CL	200 psig/a
CP	300 psig/a
CR	500 psig/a
CV	1000 psia
DM	2500 psia
DR	5000 psia

WIRING CODES

Cable	Unamplified
Red	(+) Input
Black	(+) Output

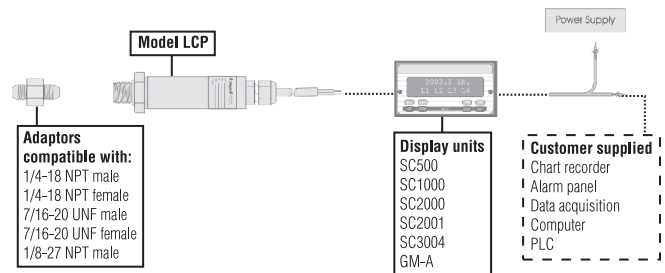
Pressure Transducer

MOUNTING DIMENSIONS AND CHARACTERISTICS



For reference only

TYPICAL SYSTEM DIAGRAM



SPECIAL REQUIREMENTS (CONSULT FACTORY)

Have a special requirement? New case pressure, different cable lengths, electrical connectors, or materials? Consult our factory by calling +1 614-850-5000 (800-848-6564). Customization is key to our test and measurement business. Special outputs, wiring codes, and calibrations are all standard to us.

NOTES

1. $\pm 2.5\%$ full scale for 5 psi range.

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.

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.