

## Model LM

## Gage Pressure Transducer



### DESCRIPTION

The Model LM pressure transducer is a cost efficient general purpose gage-only device. Each unit is constructed of welded stainless steel for durability in dry rugged environments. Both

gas and liquid pressure overloads of up to 50% over capacity are safely accepted.

### FEATURES

- 1 psig to 10000 psig range
- Integral cable connection
- 1/4-18 NPT female pressure port
- mV/V output
- 0.5 % accuracy

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## PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Accuracy <sup>1</sup>	±0.5 % full scale

## ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-54 °C to 121 °C [-65 °F to 250 °F]
Temperature, compensated	16 °C to 71 °C [60 °F to 160 °F]
Temperature effect, zero	0.01 % full scale/°F
Temperature effect, span	0.02 % reading/°F

## ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Excitation (calibration)	10 Vdc
Excitation (acceptable)	10 Vdc
Insulation resistance	5000 mOhm @ 50 Vdc
Electrical termination (std)	Cable 0.91 m [3 ft]

## MECHANICAL SPECIFICATIONS

Characteristic	Measure
Media	All gases/liquids compatible with wetted parts
Overload, safe	50 % over capacity
Pressure port	1/4-18 NPT female
Wetted parts	Stainless steel
Weight	170 g [6 oz]
Case material	Stainless steel

## OPTION CODES

<b>Range Code</b>	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.
<b>Pressure ranges</b>	1, 2.5, 5, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000, 7500, 10000 psig
<b>Temperature compensation</b>	1a. 60 °F to 160 °F
<b>Internal amplifiers</b>	2u. Unamplified, mV/V output
<b>Pressure ports</b>	5a. 1/4-18 NPT female
<b>Electrical termination</b>	Cable 0.91 m [3 ft]
<b>Special calibration</b>	9a. 10 point (5 up/5 down) @ 20 % increments 9b. 20 point (10 up/10 down) @ 10 % increments

## WIRING CODES

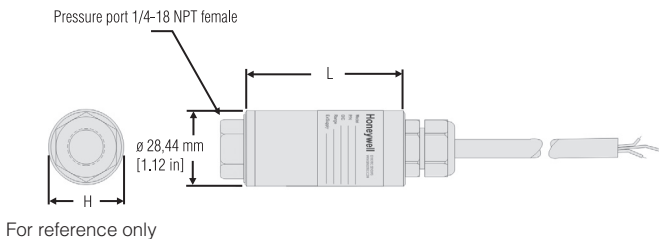
Cable	Unamplified
Red	(+) Excitation
Black	(-) Excitation
Green	(-) Output
White	(+) Output

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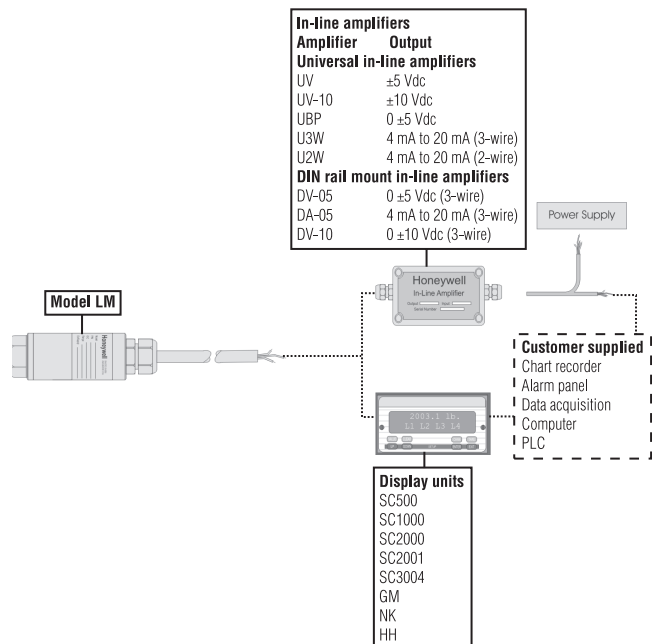
## RANGE CODES

Pressure range (psig)	1	2.5	5	15	30	50	75	100	150	200	300	500	750	1000	1500	2000	3000	5000	7500	10000
RANGE CODE	AP	AS	AT	BJ	BM	BN	BP	BR	CJ	CL	CP	CR	CT	CV	DJ	DL	DN	DR	DT	DV
L mm [in]	57,4 [2.26]			56,6 [2.23]					51 [2.00]					45 [1.78]						
Hex mm [in] psia	25,4 [1.0]			25,4 [1.0]					22,2 [0.875]					19 [0.75]						
Over pressure (test) (psi)	4	10	20	50	100	150	150	150	150 % full scale											
Over pressure (burst) (psi)	Consult factory								600	800	1,2 K	2 K	2 K	4 K	6 K	8 K	12 K	15 K	20 K	20 K
Natural frequency (Hz)	Consult factory								9,8 K	11 K	14 K	18 K	22 K	30 K	48 K	54 K	66 K	85 K	>100 K	
Port volume mm <sup>3</sup> [in <sup>3</sup> ]	2,5 [0.15]								2,8 [0.17]					3,1 [0.12]						
Output (mV/V)	5			10					2											
Wetted parts	316 stainless steel								17-4 PH stainless steel											
Bridge resistance	5000 ohm								350 ohm											
Strain gage type	Silicon								Foil											

## MOUNTING DIMENSIONS AND CHARACTERISTICS



## 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.

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## NOTES

1. Accuracies stated are expected for best-fit straight line for all errors including linearity, hysteresis & non-repeatability thru zero.

**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](http://www.honeywell.com/sensing) or call +1-815-235-6847

Email inquiries to [info.sc@honeywell.com](mailto: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.**

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