Honeywell

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

Model LM

PERFORMANCE SPECIFICATIONS

Characteristic	Measure							
Accuracy ¹	±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

Range Code	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.
Pressure ranges	1, 2.5, 5, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000, 7500, 10000 psig
Temperature compensation	1a. 60 °F to 160 °F
Internal amplifiers	2u. Unamplified, mV/V output
Pressure ports	5a. 1/4-18 NPT female
Electrical termination	Cable 0.91 m [3 ft]
Special calibration	9a. 10 point (5 up/5 down) @ 20 % increments 9b. 20 point (10 up/10 down) @ 10 % increments ments

WIRING CODES

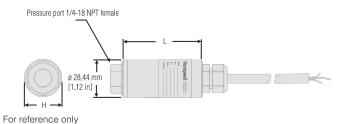
Cable	Unamplified
Cabic	Onampinied
Red	(+) Excitation
Black	(-) Excitation
Green	(-) Output
White	(+) Output

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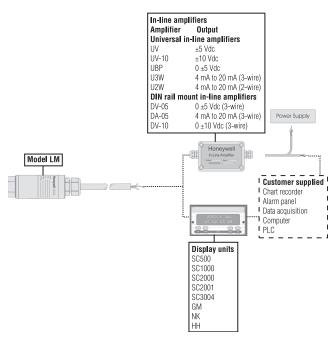
RANGE CODES

Pressure range (psig)	-	2.5	5	15	30	50	75	100	150	200	300	500	750	1000	1500	2000	3000	2000	7500	10000
RANGE CODE	AP	AS	AT	BJ	ВМ	BN	ВР	BR	CJ	CL	СР	CR	СТ	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]				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 mm³ [in³]	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	Silico	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

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

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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.

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



• 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.



- 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.

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