APPLICATIONS

DIESEL ENGINES

REFRIGERATION AND HVAC SYSTEMS

HYDRAULIC FLUID PRESSURES

GENERAL INDUSTRIAL PRESSURE

OFF ROAD VEHICLES

Model ML • *OEM PRESSURE TRANSDUCER*

The model ML pressure transducer combines the latest in ASIC technology with our proven stainless steel design. This digitally compensated transducer offers an unparalleled value and performance combination making it the ideal pressure sensing solution for demanding automotive and industrial applications. Fully temperature compensated, calibrated, and amplified, the ML is available in 100 to 5000 PSIS pressure ranges.

The ML has three standard output options: a 0.50 to 4.50 Vdc ratiometric output from 5 Vdc excitation, a 1.0 to 6.0 Vdc regulated output from 7-35 Vdc excitation, and a 4-20 mA current from 9-35 Vdc excitation. The ML transducer delivers ±0.25% full scale accuracy (BFSL) over a wide temperature range of -40°C to 105°C and utilizes a proven industry standard connector for high reliability and user flexibility.



FEATURES

- High value and outstanding performance
- No internal elastomeric seals
- Amplified outputs
- Reverse polarity protection
- Less than 500 microseconds response time
- Designed to meet IP65 standards*
- Exceeds CE Heavy Industrial EMC

BENEFITS

- Excellent OEM value
- Eliminates O-Ring compatability issues
- Eliminates cost of external amplifiers
- Not damaged by reversed excitation
- Accurate high speed measurements
- Protected from harsh environments

HOW TO ORDER S 1 G ML 100 Model . Output C = 0.5-4.5 VDCRange G = 4-20 mA15 100 01K 001 016 100 R5 = 1-6 VDC02K 25 200 004 025 160 **Termination** 50 03K 006 040 250 300 P = Packard 500 05K 010 060 350 **Pressure Connection** PSI **BAR** 1 = 1/8-27 NPTUnit . 2 = 1/4-18 NPTP = PSIReference B = BARG = Gage (only on < 100 PSI) S = Sealed

^{*} With appropriate mating connector, Packard #12065287.

TECHNICAL SPECIFICATIONS

RANGES

15, 25, 50 PSIG; 100, 200, 300, 500, 1000, 2000, 3000, 5000 PSIS 6, 10, 16, 25, 40, 60, 100,160, 250 BAR

PHYSICAL

PHYSICAL			
Proof Pressure	< 500 psi	≥ 500 psi	
	2 X rated range	1.5 X rated range	
Burst Pressure	< 500 psi	≥ 500 psi (30K psi max)	
	10 X rated range	10 X rated range	
Material in Contact	300 series SS, braze compound		
with Media			
Weight	2.0 oz (57 gm)		
ENVIRONMENTAL			
Chaale	FO sia neals (F ma) 100 sia neals (11 ma)		

Shock	50 g's peak (5 ms), 100 g's peak (11 ms)
Vibration	Figure 514.2-5, Curve AK, Table 514.2-V
	Random Vibration Test (Overall g rms = 20.7 minimum)

0.5 Vdc 4.0 Vdc 0-4.50 Vdc) dc ±250 mV	1.0 Vdc 5.0 Vdc (1.0-6.0 Vdc)	4.0 mA 16 mA (4-20 mA)
0-4.50 Vdc)	(1.0-6.0 Vdc)	
dc ±250 mV	7 05 1/4-	
'.0 V max)	7-35 Vdc	9.5-35 Vdc
mA typical mA max)	5 mA typical (7 mA max)	N/A
2.0 mA	2.0 mA	N/A
20 μΑ zero output	20 μA @ zero output	N/A
90 db	90 db	90 db
	25 W max.	N/A
	20 μA zero output	20 μA 20 μA zero output @ zero output 90 db 90 db

PERFORMANCE

Response Time < 500 microseconds

EMI/RFI Exceeds CE heavy industrial (30v/m radiated 150kHz-1gHz)

Electrical Packard Metri-Pack™ connector requires
Connection Packard #12065287 mating connector

Accuracy $\pm 0.25\%$ F.S.O. best fit straight line.

Includes: non-linearity, hysteresis, non-repeatability. Thermal errors not included. 0.5% < 100 PSI **

Total Error Band $\pm 2\%$ Typical ($\pm 3\%$ Max.) F.S.O.

Includes: zero offset error, span error, thermal effect on zero and thermal effect on span, non-linearity, hysteresis, non-repeatability

Compensated Operating and -40° to 105°C Storage Temperature Range (-40° to 221°F)

* PSIG vented thru vent hole protected by Gortex® filter

NOTE: All specifications are measured at 25° C (77° F) and at rated excitation unless otherwise specified.

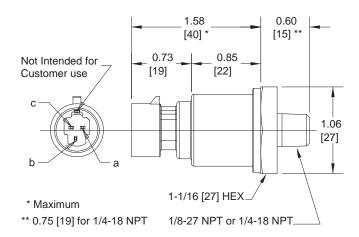
NOTE: Meets IEC-68-2 or MIL-STD 810C.

NOTE: Contact the factory to discuss other pressure ranges.

Item # 1121700 M.G. 3/01 Rev. A

DIMENSIONS

xx.xx = inches(xx.x) = mm



PIN AND WIRE CODES

Pins	Voltage	Current
А	+ Excitation	+ Excitation
В	Output	- Excitation
С	Common	NC

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.

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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.

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