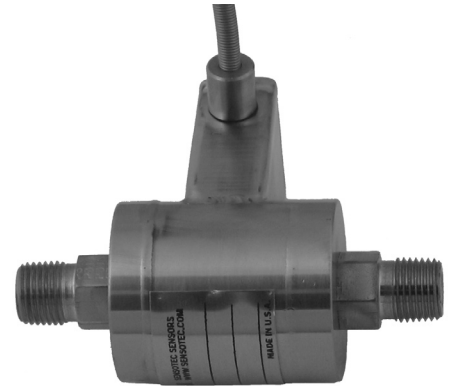


Model P-30-P

Subminiature Wet/Wet Differential Pressure Transducer



DESCRIPTION

The Model P-30-P, wet/wet differential pressure transducer, is a subminiature unit which is uniquely suited to aerospace, chemical or nuclear applications. Features include small size, bidirec-

tional overload protection, wide temperature compensation, and high natural frequencies.

FEATURES

- 0.3 % accuracy
- 5 psid to 2000 psid
- High frequency
- Light weight
- Compact design

Model P-30-P

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Pressure ranges (psid)	5, 10, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750, 1000, 2000
Accuracy	±0.3 % full scale
Linearity	±0.2 % full scale (typical)
Hysteresis	±0.1 % full scale (typical)
Non-repeatability	±0.1 % full scale (typical)
Output (standard)	
5 psid to 25 psid	100 mV (nominal)
50 psid to 2000 psid	2 mV/V (nominal)
Line pressure	
5 psid to 25 psid	250 psi
50 psid to 2000 psid	500 psi or 2X full scale (whichever is higher) up to 2000 psi
Resolution	Infinite

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	
5 psid to 25 psid	±2.0 % full scale/100 °F
50 psid to 2000 psid	±1.0 % reading/100 °F
Temperature effect, span	
5 psid to 25 psid	±2.0 % full scale/100 °F
50 psid to 2000 psid	±1.0 % reading/100 °F

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Strain gage type	
5 psid to 25 psid	Bonded semiconductor
50 psid to 2000 psid	Bonded foil
Excitation (calibration)	10 Vdc
Bridge resistance	
5 psid to 25 psid	500 ohm
50 psid to 2000 psid	350 ohm
Shunt calibration data	Included
Elec. termination (std)	Teflon cable 1.5 m [5 ft]

MECHANICAL SPECIFICATIONS

Characteristic	Measure
Media	Gas, liquid
Overload-safe	Max. line pressure either side
Pressure port	1/8-27 NPT male: 7/16 hex
Wetted parts material	17-4 PH stainless steel
Case material	Stainless steel

RANGE CODES

Range Code	Range	Range Code	Range
AT	5 psid	CJ	150 psid
AV	10 psid	CL	200 psid
BJ	15 psid	CP	300 psid
BL	25 psid	CR	500 psid
BN	50 psid	CT	750 psid
BP	75 psid	CV	1000 psid
BR	100 psid	DL	2000 psid

OPTION CODES

	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 (psid)	5, 10, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750, 1000, 2000	
Temperature compensation	1a. 60 °F to 160 °F 1b. 30 °F to 130 °F 1c. 0 °F to 185 °F 1d. -20 °F to 130 °F	1e. -20 °F to 200 °F 1f. 70 °F to 250 °F 1g. 0 °C to 50 °C
Internal amplifiers	2u. Unamplified, mV/V output	
Pressure ports	5i. 1/8- 27 NPT male 5d. 7/16- 20 UNF male (per MS33656-E4)	
Electrical termination	6e. Integral cable: Teflon (-54 °C to 245 °C) 6i. Integral underwater cable (8 m [26 ft]) (max. 80 °C) ¹	

WIRING CODES

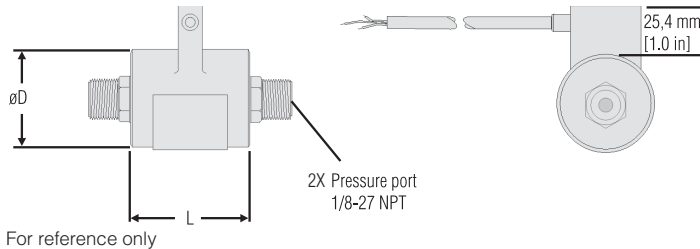
Connector/unamplified	
Red	(+) excitation
Black	(-) excitation
Green	(-) output
White	(+) output

Model P-30-P

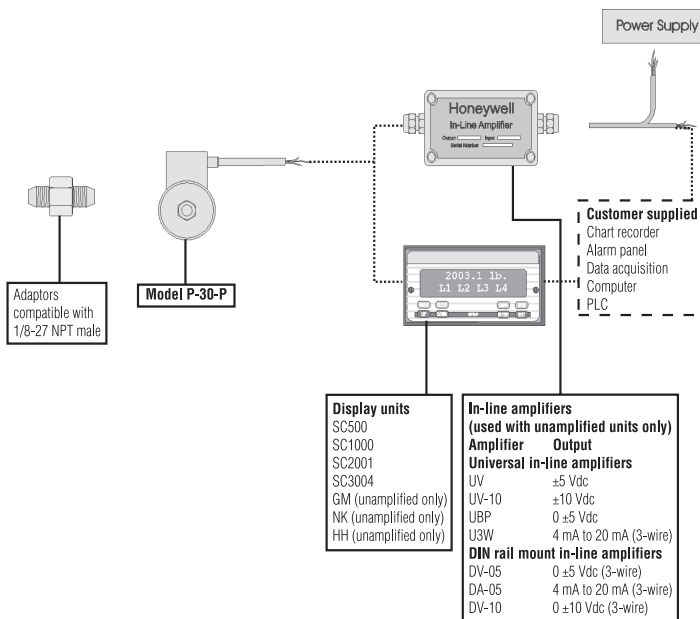
Subminiature Wet/Wet Differential Pressure Transducer

MOUNTING DIMENSIONS AND CHARACTERISTICS

Range (psid)	Order codes	D mm [in]	L mm [in]
5 to 25	BD311	28,7 mm [1.13]	35,6 mm [1.4]
50 to 500	BD312	28,7 mm [1.13]	35,6 mm [1.4]
750 to 2000	BD312	35,1 mm [1.38]	40,6 mm [1.6]



TYPICAL SYSTEM DIAGRAM



NOTES

1. Availability varies according to range.

For long cable runs or electrically noisy environments an amplified sensor or locally mounted amplifier is often preferred.

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.

Sensing and Control
Automation and Control Solutions
Honeywell
1985 Douglas Drive North
Golden Valley, MN 55422 USA
+1-815-235-6847
www.honeywell.com/sensing

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