VACUUM AND COMPOUND RANGE PRESSURE TRANSMITTER

PT-31

SPECIAL FEATURES

- Compact and Economical Design
- 1% Accuracy
- 316 Stainless steel Housing
- Vacuum to 85 psi Ranges
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption



2014/34/EU

Reach

RoHS

APPLICATIONS

- Hydraulic / Mobile Hydraulic
- Pneumatic Systems
- Food and Beverage Industry
- Pumps and Compressors
- Energy and water management
- Construction and Agricultural Equipment

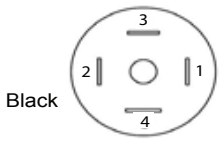
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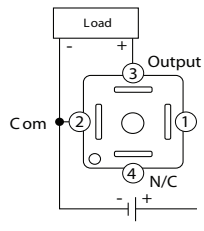
The PT-31 Series Pressure Transducer utilizes piezoresistance technology in an all stainless steel body. It is compact in size,has long term stability, ease of installation and is very economical as well as reliable.

The PT-31 sets a new economic-performance standard, high volume commercial and industrial applications.

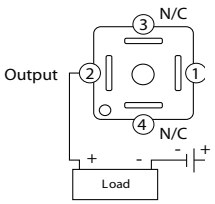
ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output N/A	Red Black White N/A	1 2 3 4	DIN 4 pin (9.4)
				Black
4-20mA	Supply V Output	Red Black	1 2	





0-5VDC Output

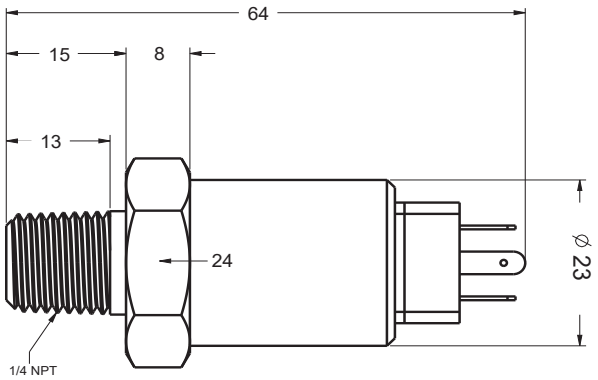


4-20mA Output

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PT-31

DIMENSIONS



Dimensions are in millimeters and for reference only

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	1% FS, BFSL (includes non-linearity, hysteresis and non-repeatability)
Stability	0.2% FS
Thermal Error	1% FS
Compensated Temperatures	-10 to 75 ° C (14 to 167 ° F)
Operating Temperatures	-20 to 80 ° C (-4 to 176 ° F)
Current Consumption	Approx 4mA for 0-5 & 0.5-4.5 voltage output, 11mA for 0-10 voltage output, 23mA for current output (4-20mA)
Zero and Span Offset Tolerance	1.5%
Shock	50g, 11ms, 1/2 sign
Vibration	11g peak from 10 to 400 Hz
Reverse Polarity Protection	Yes

Mechanical Configuration

Pressure Port	1/4 NPT (standard) *
Electrical Connection	9.4 mini DIN, 3 pin Packard *
Ingress Rating	IP65 with T-Direct standard 9.4 DIN cable
Housing	316 stainless steel
Diaphragm Material	316 SS -Vac-0,Vac-15,Vac-45 Ceramic -Vac-85
Sealing Material	Neoprene
Approvals	CE

Input

Functional Supply Voltage / (Output)	10-30 VDC (0-5V, 4-20mA) 5 VDC (0.5-4.5V) 12-32 VDC (0-10V)
Pressure Range	Vacuum to 85 psig*
Proof Pressure	1.5 x full scale
Burst Pressure	3 x full scale
Fatigue Life	More than 4 million cycles

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

** Consult factory for further OEM options.*

HOW TO ORDER

Series	Output	Pressure Type	Range unit	Pressure Range	Pressure Port	Electrical Connection	Accuracy
PT-31	A	G	PSI	V000	2NM	M12x1	4
	A = 4-20mA (2 wire) B = 0-5V (3 wire) **	G = Gauge	PSI BAR Kg/cm² MPa kPa	(psi) Vac-0=V000 Vac-15=V015 Vac-45=V045 Vac-85=V085 **	2NM 1/4"NPT (M) 2BM 1/4" BSP (M) 1TM 1/4" BSPT (M) 1BM 1/8" BSP (M) 1NM 1/8" NPT (M) 1TM 1/8" BSPT (M) 3BM 3/8" BSP (M) 3NM 3/8" NPT (M) 3TM 3/8" BSPT (M) 4BM 1/2" BSP (M) 4NM 1/2" NPT (M) 4MM M20x1.5 (M)	9.4 Mini DIN - 4PIN M12x1 Packard-3PIN Deutsch DT04-3P	4= 1% **