ALL STAINLESS STEEL PRESSURE TRANSMITTER

PT-33

SPECIAL FEATURES



- Compact and Economical Design
- 1% Accuracy
- 316 Stainless steel Housing
- Vac to 285 psi or 3 to 10,000 psi Range
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption
- Compensated Temperatures -20 to 100 ° C (-4 to 212 ° F)
- High operating temperature 120 ° C (248 ° F) / Low -40 ° C(-40 ° F)
- Full stainless steel wetted parts
- X3 Proof Pressure
- X5 Burst Pressure

2014/34/EU

Reach

RoHS

APPLICATIONS

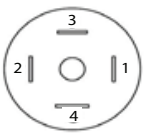
- Hydraulic / Mobile Hydraulic
- Pneumatic Systems
- Food and Beverage Industry
- Refrigeration Systems
- Pumps and Compressors
- Energy and water management
- Construction and Agricultural Equipment

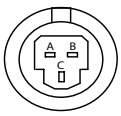
DESCRIPTION

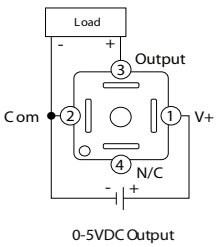
The PT-33 Series Pressure Transducer utilizes piezoresistance technology in an all stainless steel body. It is compact in size,has long term stability, ease of installation and is very economical as well as reliable.

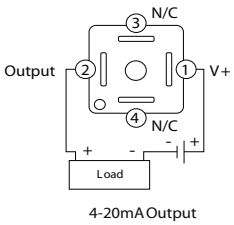
The PT-33 sets a new economic-performance standard, high volume commercial and industrial applications.

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	

Signal	Function	Color	Pin	3 pin Packard
0-5V	Com Supply + Output +	Black Red White	A B C	
4-20mA	Output Supply +	Black Red	A B	

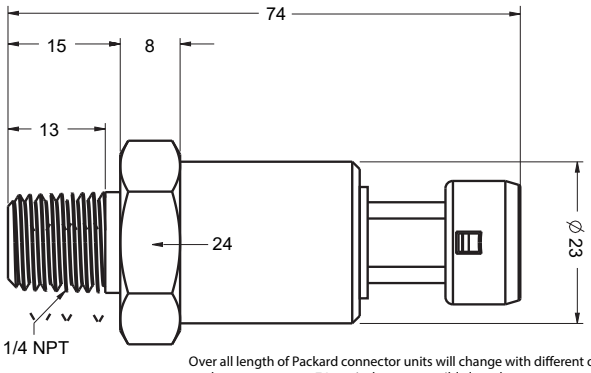




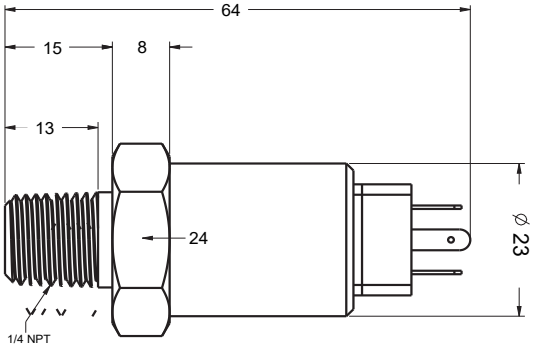
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DIMENSIONS



Over all length of Packard connector units will change with different outputs and pressure ranges. 74mm is the max possible length.



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	-20 to 100 ° C (-4 to 212 ° F)
Operating Temperatures	-20 to 125 ° C (-4 to 257 ° 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 IP66 with T-Direct standard Packard cable
Housing	316 stainless steel
Diaphragm Material	316L SS <1500 psi, 17-4 SS 1500 psi and above, wetted parts are SS, no internal Orings
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	Vac to 285 psi or 3 to 10,000 psi
Proof Pressure	3-6000 psi = 3 x 6000-10K psi = 2 x
Burst Pressure	3-6000 psi = 4x 6000-10K psi = 3x
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-33	A	G	PSI	0050	2NM	M12x1	4

Output
A = 4-20mA (2 wire)
B = 0-5V (3 wire)
C = 0.5-4.5 vdc (3 wire)
5 vdc supply (ratiometric)
**

Pressure Type
G = Gauge

Range unit
PSI
BAR
Kg/cm²
MPa
kPa

Pressure Range
(psi)

V000	0015
V015	0025
V045	0050
V085	0100
V135	0250
V185	0500
V285	1000
	3000
	5000

**

Pressure Port
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)

Electrical Connection
9.4 Mini DIN - 4PIN
M12x1
Packard-3PIN
Deutsch DT04-3P

Accuracy
4= 1%
**