



PRESSURE TRANSMITTERS



ELITE INSTRUMENTS CO.,LTD
ISO 9001 COMPANY

PRESSURE GAUGE | THERMOMETER | DIAPHRAGM SEAL | TRANSMITTER

www.elite-instruments.com



2014/34/EU

II 3GD

Ex ic IIC T4...T5 Gc°C

Ex ic IIIC T135°C...T100 Dc Ta: -30°C~+80°C



WETTED PARTS -AVAILABLE SS 316L , HASTELLOY-C276 , INCONEL 625 , MONEL 400

Wetted Parts SS 316L (AS PER NACE MR 0175)

Sensors Available In Piezo Resistive/Ceramic/Micro Fused
Helium Leak Tested

SS316 Enclosure

Fully Stainless Welded Design

Temperature Compensation: -20 (-4°F) to 100°C(212°F)

Operating Temperatures: -40°C(-40°F) to 120°C(248°F)

IP 68 Enclosure Protection

Proof Pressure Up to 3 x Full Scale value up to 6000psi

Burst Pressure Up to 5 x Full Scale value Up to 6000psi

Accuracy Available Up to 0.05%

Zero and Span Adjustment

Re Calibration available Upto 50% F.S value

Range Units Are Re – Programmable

Reverse Polarity Protection

Life Span More Than 4 Million Cycles

*PLEASE REFER TRANSMITTERS CATALOGUE FOR DETAILS

Table of contents

SR NO.	MODEL NO.	DESCRIPTION	PAGE NO.
1	PT-03	PIEZORESISTIVE PRESSURE TRANSMITTER	1
2	PT-30	ECONOMY PRESSURE TRANSMITTER	3
3	PT-31	VACUUM AND COMPOUND RANGE PRESSURE TRANSMITTER	5
4	PT-32	GENERAL PURPOSE INDUSTRIAL PRESSURE TRANSMITTER	7
5	PT-33	ALL STAINLESS STEEL PRESSURE TRANSMITTER	9
6	PT-40	HIGH ACCURACY PRESSURE TRANSMITTER	11
7	PT-41	VACUUM AND COMPOUND RANGE PRESSURE TRANSMITTER	13
8	PT-43	HIGH ACCURACY ALL STAINLESS STEEL PRESSURE TRANSMITTER	15
9	PT-70	FLUSH DIAPHRAGM TYPE PRESSURE TRANSMITTER	17
10	SPT-80	SUBMERSIBLE PRESSURE TRANSMITTER	19
11	SPT-81	SUBMERSIBLE PRESSURE TRANSMITTER	21
12	SPT-82	SUBMERSIBLE PRESSURE TRANSMITTER WITH DEBRIS STANDOFF	23
13	ETT-01	INDUSTRIAL TEMPERATURE TRANSMITTER	25
14	DG-PG	DIGITAL PRESSURE GAUGE	27

SPECIAL FEATURES

Can be adjusted on zero and full-scale output
High Stability ,High Reliability
Short Circuit Protection and reverse polarity protection
Measurable Gauge Pressure, Absolute Pressure & Seal Reference pressure.

SPECIFICATIONS

Pressure Range :-1...0~0.1...1000 bar
Over Load : 2 times @ FS 1100 bar (Take the small value)
Pressure Type : Gauge , Absolute or Sealed Gauge
Output Type : Current Type , Voltage Type
Power Supply : Current Type - 9~30VDC
Voltage Type - 12~30VDC
Output Signal : Current Type - 4mA~20mA DC (2 Wire)
Voltage Type - 0/0.5/1 V ~ 5/4.5/10 VDC
(3 wire)
Compensation Temperature : 14°F (-10°C) ~ 176°F (80°C)
Operating Temperature : -22°F(-30°C) ~ 176°F(80°C)
Storage Temperature : -40°F (-40°C) ~ 257°F (125°C)
Housing : SS
Sensor : SS 316L
Seal Ring : Viton
Cable : DIA 7.5mm Special cable for Polyethylene
Protection Class : IP 65 (Plug) , IP 68 (Cable)

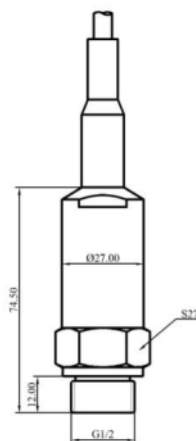
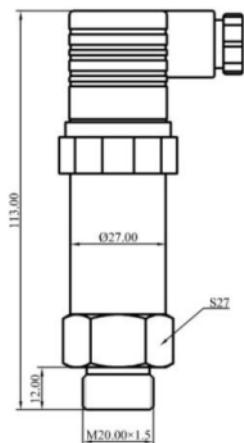
APPLICATIONS

Petroleum, Chemical Industry , Electric Power
Urban Water Supply, Hydrologic Exploration , Hydraulic Industry

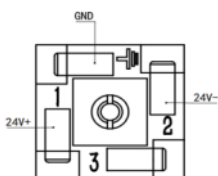
ACCURACY

Accuracy: $\pm 0.25\%$ F.S (Typical) , $\pm 0.5\%$ F.S (Max.)
Zero and Full Scale Temperature Coefficient : 0.03% FS /°F(°C) at (≤ 1 bar) ,
 0.02% FS /°F(°C) at (> 1 bar)
Long Term Stability : $\pm 0.3\%$ F.S / Year

Structure and Dimension (mm)



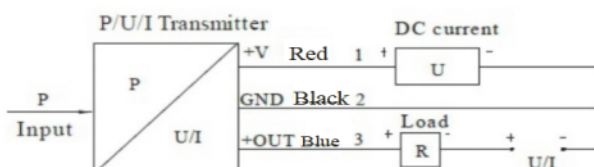
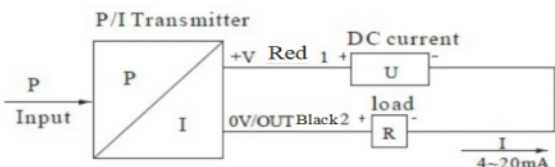
ELECTRICAL CONNECTIONS



Pin	2-wire	3-wire	Color
1	(+V)	(+V)	RED
2	(0V/+OUT)	(GND)	BLACK
3	null	(OUT)	BLUE

Electric Connection for transmitter output 2-wire 4-20mA

Electric Connection for transmitter output 3-wire 0/1-5VDC



HOW TO ORDER

ACTUAL PRESSURE MEASURING RANGE

PRESSURE TYPE

G GAUGE **A** ABSOLUTE **S** SEALED GAUGE

SIGNAL OUTPUT

E 4mA~ 20mA DC **J** 0V~5V DC
F 1V~ 5 V DC **V** 0V~ 10V DC

MATERIAL

CODE	DIAPHRAGM	PRESSURE PORT	HOUSING
22	SS316L	SS	SS
24	SS316L	SS316L	SS316L
26	HASTELLOY-C	SS	SS

CONNECTION

B1 PLUG CONNECTION

B2 CABLE CONNECTION

CONNECTION SIZE-FLUSH DIAPHRAGM

1BM 1/8"BSP(M) **1NM** 1/8"NPT(M) **1TM** 1/8"BSPT(M) **2BM** 1/4"BSP(M) **2NM** 1/4"NPT(M)
2TM 1/4"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) **4TM** 1/2"BSPT(M) **4MM** M20X1.5(M) **YM** 1"SANITARY SEAL
YN 1 1/2" SANITARY SEAL **YO** 2" SANITARY SEAL **YP** 2 1/2" SANITARY SEAL

ORDER NOTE

- Please try to fully understand the pressure detection point of the media status, pressure range and other working condition to avoid the necessary losses caused by unreasonable use of the product.
- Although the product has designed a variety of protection measures but for extreme applications such as the scene with strong lighting applications should ensure that the power supply grounding and install anti-lighting protection device to minimize the probability of the product failure.
- We can provide special design and manufacturing for special application, welcome to consult the customer negotiations Tel: +91 08852-294678/ +65 9372 9989
E-mail : snreddy@elite-instruments.com (Technical Support),
sales@elite-instruments.com (Sales Support). We will provide detailed technical support until you are satisfied.

Ordering Example: PT-03-X-X-XX-XX-XX-X

Example

X

X

X

XX

XX

XX

SPECIAL FEATURES

- Compact and Economical Design
- 1% Accuracy
- 316 Stainless steel Housing
- 3 to 10,000 psi Range
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption



APPLICATIONS

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

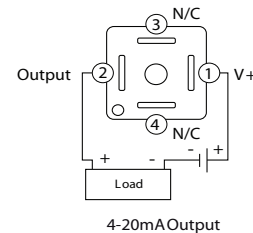
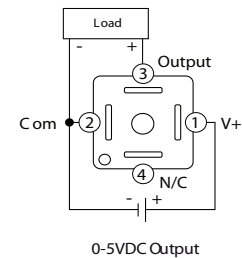
DESCRIPTION

The PT-30 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.

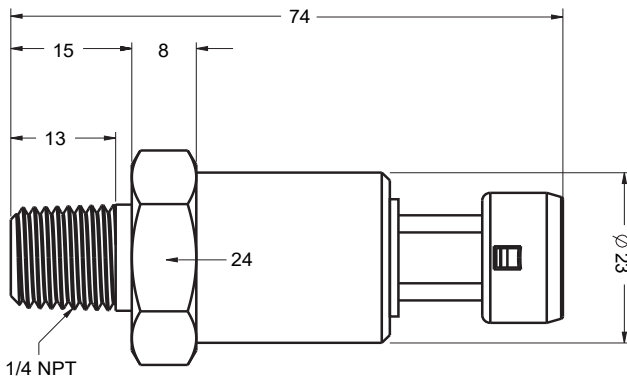
The PT-30 sets a new economic-performance standard, high volume commercial and industrial applications.

ELECTRICAL CONNECTIONS

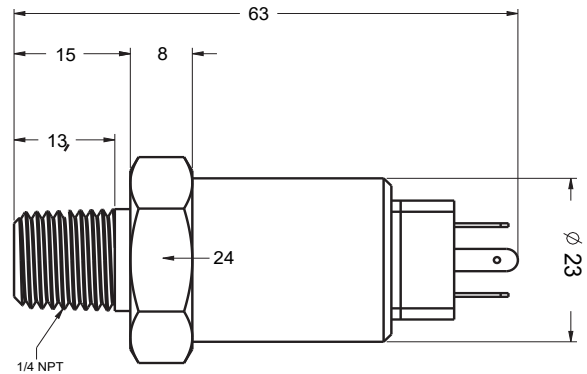
Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output N/A	Red Black White N/A	1 2 3 4	
				DIN 4 pin (9.4)
				Black
4-20mA	Supply V Output	Red Black	1 2	3 pin Packard
Signal	Function	Color	Pin	
0-5V	Com Supply + Output +	Black Red White	A B C	
4-20mA	Output Supply +	Black Red	A B	



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	-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 IP66 with T-Direct standard Packard cable
Housing	316 stainless steel
Diaphragm Material	3-75psi = 316 SS, >75-1600psi = ceramic, >1600-10,000psi = 17-4 SS
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	3 to 10,000 psi
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-30	A	G	PSI	0050	2NM	M12x1	4
	A= 4-20mA (2wire) B= 0-5V (3 wire) C= 0.5-4.5 vdc (3wire) 5 vdc supply (ratiometric) **	G = Gauge	PSI BAR Kg/cm ² MPa kPa	(psi) 0015 0025 0050 0100 0250 0500 1000 3000 5000 **	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% **

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



APPLICATIONS

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

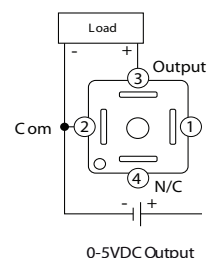
DESCRIPTION

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.

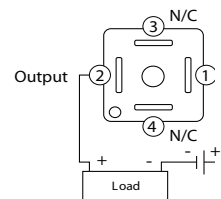
The PT-31 sets a new economic-performance standard, high volume commercial and industrial applications.

ELECTRICAL CONNECTIONS

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

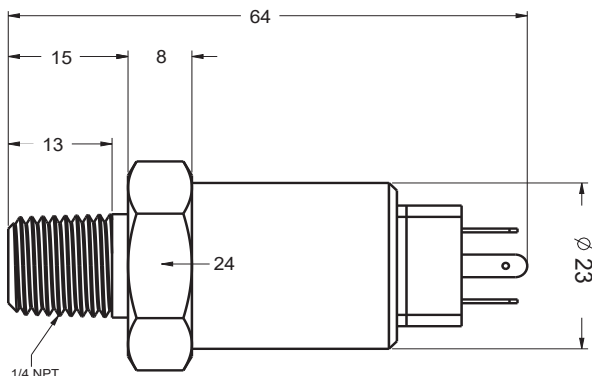


0-5VDC Output



4-20mA Output

DIMENSIONS



Dimensions are in millimeters and for reference only

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	1% FS, BFS (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/cm ² 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% **

SPECIAL FEATURES

- 316 Stainless Steel Housing
- Gauge Pressures, 2 to 10,000 psi
- 1% Accuracy
- ASIC Temperature Compensated
- High Vibration Applications
- Output Impedance: < 100 ohms
- Wetted Parts: RTV, Pyrex, Silicone, 316SS
- OEM Tested and Approved

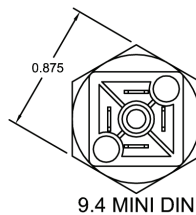
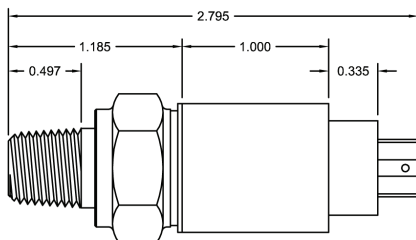


DESCRIPTION

The PT-32 Series Pressure Transducer was developed for all types of industrial applications. The design is based on high temperature, inorganically bonded, media isolated, piezo-resistive technology and offers reliable and accurate measurements under harsh environmental conditions. Robust construction of the PT-32 provides stable operation when subjected to shock and vibration. Suitable for use in machinery, process control, automation, hydraulic pumps, water applications, HVAC, etc.

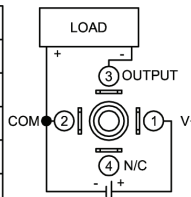
Features digital compensation and temperature correction for high accuracy and stability.

ELECTRICAL CONNECTIONS



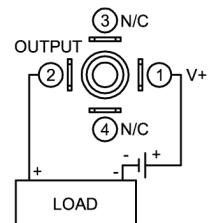
Voltage

DIN 4 PIN (9.4)		
PIN	COLOR	FUNCTION
1	RED	SUPPLY V+
2	BLACK	COM
3	WHITE	OUTPUT +
4	N/A	N/C

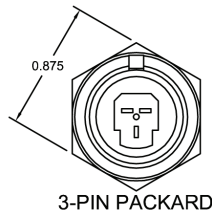
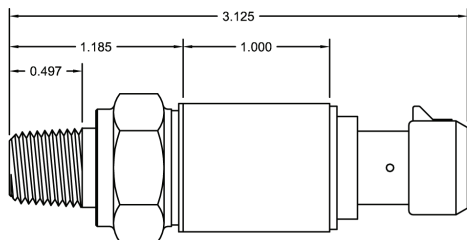


Current

DIN 4 PIN (9.4)		
PIN	COLOR	FUNCTION
1	RED	SUPPLY V+
2	BLACK	COM
3	BLUE	N/C
4	N/A	N/C



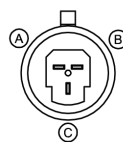
ELECTRICAL CONNECTIONS



3-PIN PACKARD

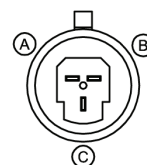
Voltage

3 PIN PACKARD		
PIN	COLOR	FUNCTION
A	BLACK	COM
B	RED	SUPPLY +
C	WHITE	OUTPUT +



Current

3 PIN PACKARD		
PIN	COLOR	FUNCTION
A	BLACK	OUTPUT
B	RED	SUPPLY +
C	N/A	N/C



SPECIFICATIONS

Zero & Span Tolerance: 1.5% for all outputs

PT-32C (Ratiometric) Performance (specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Functional Supply Voltage	5 VDC
Output	0.5~4.5 VDC (Ratiometric)
Supply Current	<8 mA
Error	+/- 3.0% FS TEB
Zero Offset	0.5 VDC
Full Scale Output	4.5 VDC
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 80°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

PT-32A (4~20 mA) Performance (specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Functional Supply Voltage	10~30 VDC
Output	4~20 mA
Supply Current	<30 mA
Error	+/- 3.0% FS TEB
Zero Offset	4 mA
Full Scale Output	20 mA
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 85°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

PT-32B (0~5 VDC) Performance (specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Functional Supply Voltage	10~30 VDC
Output	0~5 VDC
Supply Current	<10 mA
Error	+/- 3.0% FS TEB
Zero Offset	0 VDC
Full Scale Output	5 VDC
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 85°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

HOW TO ORDER

Series	Output	Pressure Type	Range unit	Pressure Range	Pressure Connection	Electrical Connection	Accuracy
PT-32	A	G	PSI	0050	2NM	M12x1	4
	A = 4 - 20mA B = 0 - 5V C = 0.5 - 4.5V (Ratiometric)* *	G = Gauge	PSI BAR Kg/cm ² MPa kPa	0015 0025 0050 0100 0250 0500 1000 3000 5000 **	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 = 1.0 %**

**= Consult factory for further OEM options

Pressure ranges and outputs listed above are quick ship versions

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



APPLICATIONS

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

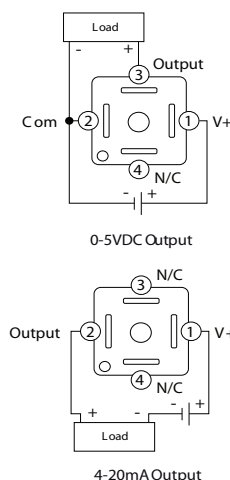
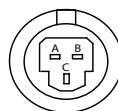
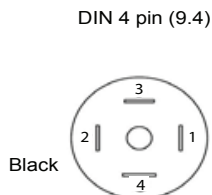
DESCRIPTION

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.

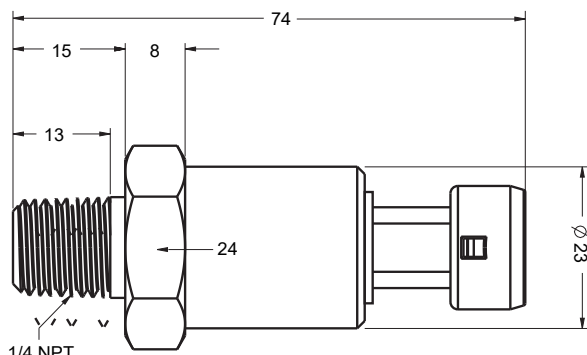
The PT-33 sets a new economic-performance standard, high volume commercial and industrial applications.

ELECTRICAL CONNECTIONS

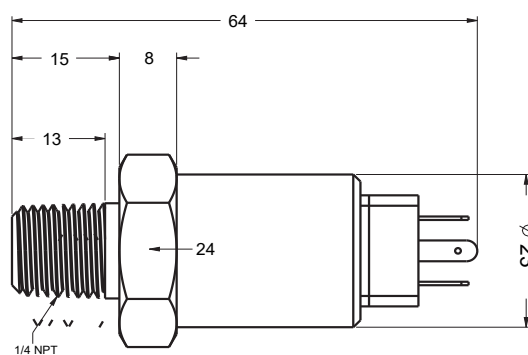
Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output N/A	Red Black White N/A	1 2 3 4	
4-20mA	Supply V Output	Red Black	1 2	3 pin Packard
Signal	Function	Color	Pin	
0-5V	Com	Black	A	
	Supply +	Red	B	
	Output +	White	C	
4-20mA	Output	Black	A	
	Supply +	Red	B	



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
	A = 4-20mA (2 wire) B = 0-5V (3 wire) C = 0.5-4.5 vdc (3 wire) 5 vdc supply (ratiometric) **	G = Gauge	PSI BAR Kg/cm ² MPa kPa	(psi) V000 0015 V015 0025 V045 0050 V085 0100 V135 0250 V185 0500 V285 1000 3000 5000 **	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% **

SPECIAL FEATURES

- Compact and EconOmic Design
- 0.4% Accuracy
- 316 Stainless steel Housing
- 3 to 10,000 psi Range
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption



APPLICATIONS

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

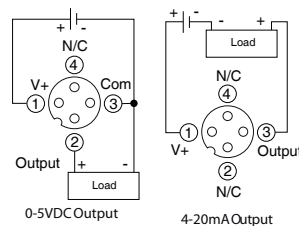
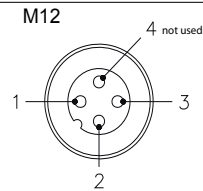
DESCRIPTION

The PT-40 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.

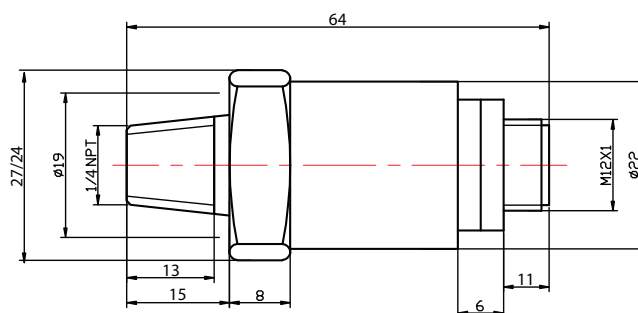
The PT-40 sets a cost effective performance standard, high volume commercial and industrial applications.

ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin
0-5V	Supply V +	Brown	1
	Output +	White	2
	Com	Blue	3
4-20mA	Supply V +	Brown	1
	Output	Blue	3



DIMENSIONS



Dimensions are in millimeters and for reference only

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	0.4% 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	M12 *
Ingress Rating	IP67
Housing	316 stainless steel
Diaphragm Material	3-75psi = 316 SS, >75-1600psi = ceramic, >1600-10,000psi = 17-4 SS
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	3 to 10,000 psi
Proof Pressure	1.5 x fullscale
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-40	A	G	PSI	0050	2NM	M12x1	5
	A = 4-20mA B = 0-5V (3 wire) **	G = Gauge **	PSI BAR Kg/cm ² MPa kPa	(psi) 0015 0025 0050 0100 0250 0500 1000 3000 5000 **	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 5= 0.4%	

SPECIAL FEATURES

- Compact and Economical Design
- 0.4% Accuracy
- 316 Stainless steel Housing
- Vacuum to 85 psi Ranges
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- Low power consumption



APPLICATIONS

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

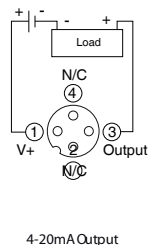
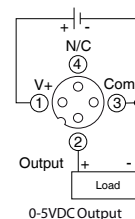
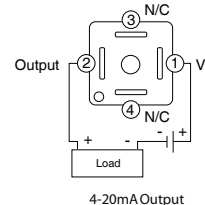
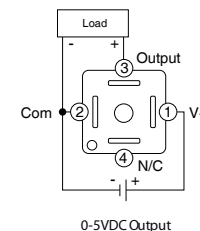
DESCRIPTION

The PT-41 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.

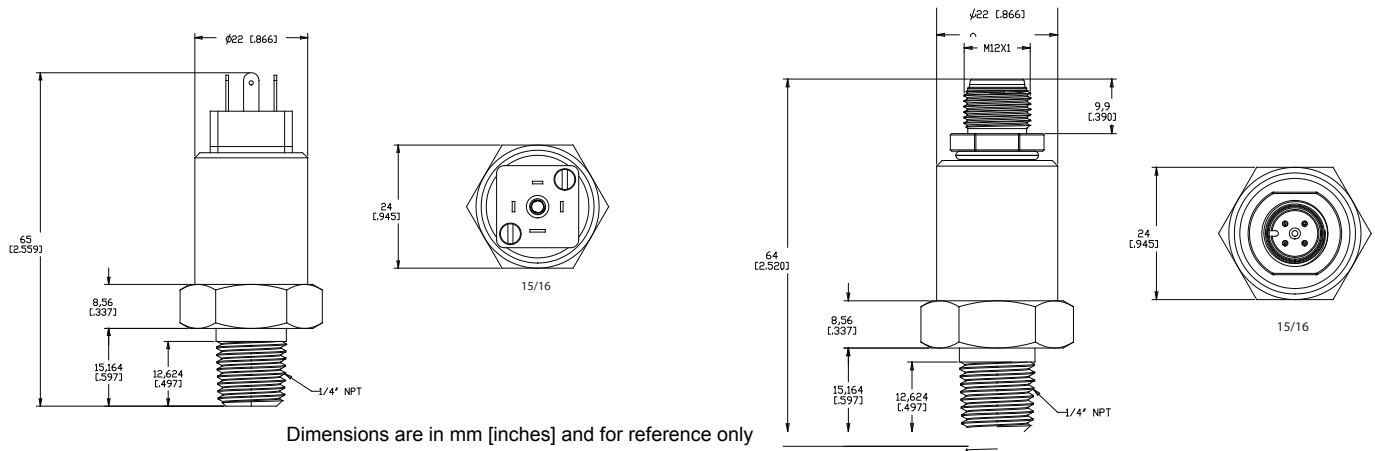
The PT-41 sets a new economic-performance standard, high volume commercial and industrial applications.

ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V + Com Output	Red Black White	1 2 3	
4-20mA	Supply V + Output	Red Black	1 2	DIN 4 pin (9.4)
Signal	Function	Color	Pin	
0-5V	Supply V + Output + Com	Brown White Blue	1 2 3	M12
4-20mA	Supply V + Output	Brown Blue	1 3	



DIMENSIONS



Dimensions are in mm [inches] and for reference only

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	0.4% FS, BFS (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-41	A	G	PSI	V000	2NM	M12x1	5
	A = 4-20mA B = 0-5V (3 wire) **	G = Gauge	PSI BAR Kg/cm ² 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	5= 0.4%

SPECIAL FEATURES

- Compact and Economical Design
- 0.4% 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



APPLICATIONS

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

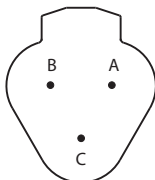
DESCRIPTION

The PT-43 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-43 sets a new economic-performance standard, high volume commercial and industrial applications.

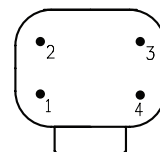
ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin	
0-5V	Supply V + Output + Com	Brown White Blue	1 2 3	
4-20mA	Supply V + Output	Brown Blue	1 3	



Transducer View
Deutsch DT04-3P

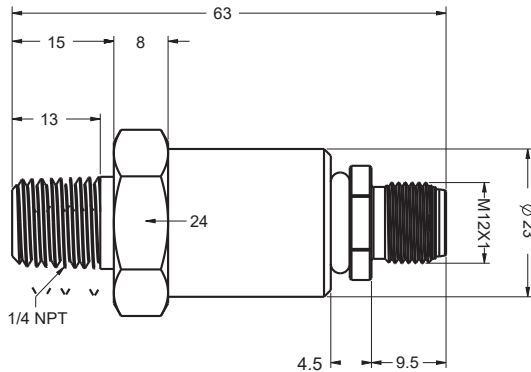
X3	PINA	PINB	PINC
mA	SUPPLY+	N/C	OUTPUT
V	SUPPLY+	OUTPUT+	COM



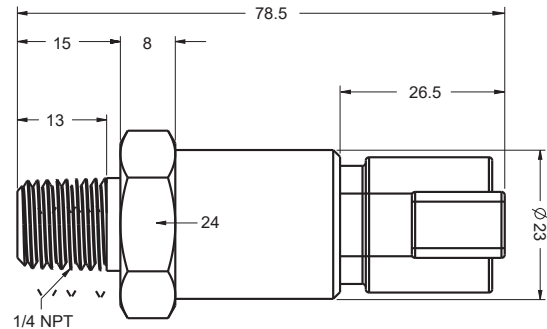
Transducer View
Deutsch DT04-4P

X4	Pin1	Pin2	Pin3	Pin4
mA	Output	Supply+	N/C	N/C
V	COM	Supply+	N/C	output +

DIMENSIONS



Dimensions are in millimeters and for reference only



Over all length of Deutsch connector units will change with different outputs and pressure ranges. 78.5mm is the max possible length.

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	0.4% FS, BFSL (includes non-linearity, hysteresis and non-repeatability)
Stability	0.2% FS
Thermal Error	1% FS
Compensated Temperatures	-10 to 100 °C (14 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	M12, 4 pin Deutsch (DT04-4P) *
Ingress Rating	IP67
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) Vac to 285 psi or 3 to 10,000 psi
Pressure Range	
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-43	A	G	PSI	0050	2NM	M12x1	5
	A = 4-20mA (2 wire) B = 0-5V (3 wire) **	G = Gauge **	PSI BAR Kg/cm ² MPa kPa	(psi) V000 0015 V015 0025 V045 0050 V085 0100 V135 0250 V185 0500 V285 1000 3000 5000 **	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	5= 0.4%

SPECIAL FEATURES

- Voltage Supply Ranges: 5 VDC, 12-36 VDC
- Pressure Ranges up to 8000 psi
- 1.5x Over Pressure Rating
- Voltage and Current Outputs Available
- 316 Stainless Steel Housing
- Compact and Economical Design
- 0.5% Accuracy



APPLICATIONS

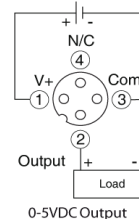
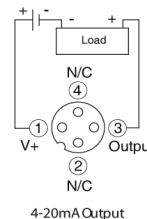
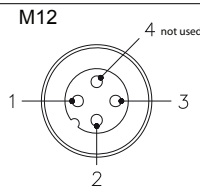
- Fluid and Gas Pressure
- Food and Beverage Industry
- Hydraulics
- Sanitation
- More

DESCRIPTION

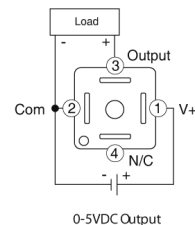
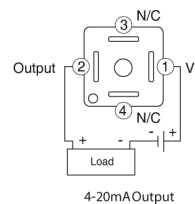
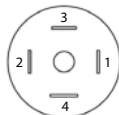
Transducers Direct offers a PT-70 Series flush mount pressure transducer with outstanding reliability, including piezoresistance sensor technology and a stainless steel construction. The product includes a wide variety of electrical connections for multiple application-driven projects, all the while additionally providing long term stability and precision measurement.

ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin
0-5V	Supply V +	Brown	1
-----	Output +	White	2
0.5-4.5V (ratiometric)	Com	Blue	3
4-20mA	Supply V +	Brown	1
	Output	Blue	3



Signal	Function	Color	Pin	Electrical Connector
0-5V	Supply V +	Red	1	
-----	Com	Black	2	DIN 4 pin (9.4)
0.5-4.5V (ratiometric)	Output	White	3	
	N/A	N/A	4	
4-20mA	Supply V	Red	1	Electrical Connector
	Output	Black	2	



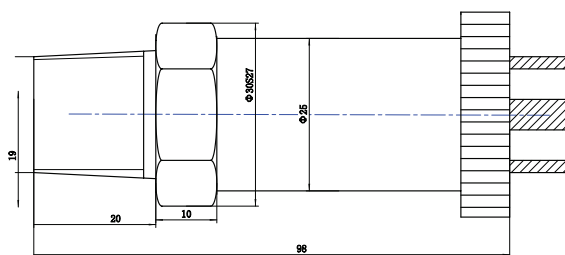
SPECIFICATIONS

Input	
Supply Voltage	12~36 VDC, 5 VDC, ratiometric supply
Pressure Range	0~2 psi to ~8000 psi
Pressure Type	Gauge
Proof Pressure	1.5x FS
Burst Pressure	3x FS
Fatigue Life	1 million cycles
Performance @ 25° C (77° F)	
Accuracy	0.5% full scale, BFSL
Stability	± 0.2% full span over 1 year
Compensated Temperatures	-10 to 75 ° C (14 to 167 ° F)
Operating Temperatures	-20 to 80 ° C (-4 to 176 ° F)
Mechanical Configuration	
Pressure Port	1/2 NPT, G 1/2
Electrical Connection	9.4 mini DIN, M12
Housing	316 Stainless Steel
Sealing Material	FKM (fluoroelastomer)

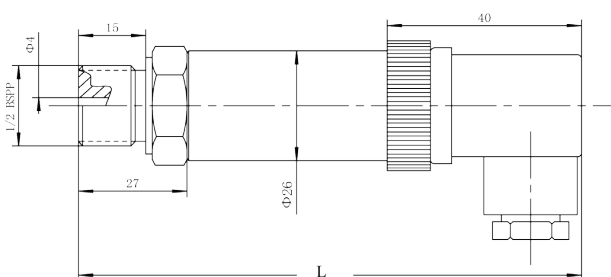
For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

DIMENSIONS



1/2 NPT



G 1/2

Dimensions are in mm and for reference only

HOW TO ORDER

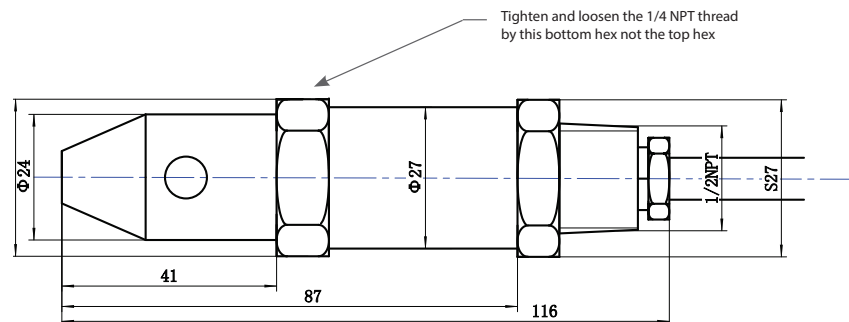
Series	Output	Range unit	PressureType	Pressure Range	Pressure Port	Electrical Connection	Accuracy
PT-70	A	PSI	G	8000	2NM	M12x1	3
PT-70 = 316 stainless steel							
	A = 4-20mA B = 0-5 V C = 0.5-4.5V (ratiometric) **	PSI BAR Kg/cm ² MPa kPa	G = Gauge **	0005 = 0-5 psi 0010 = 0-10 psi 0025 = 0-25 psi 0050 = 0-50 psi 0100 = 0-100 psi 0250 = 0-250 psi 0500 = 0-500 psi 1000 = 0-1000 psi 3000 = 0-3000 psi 6000 = 0-6000 psi 8000 = 0-8000 psi **	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	3 = 0.5% **

SPECIAL FEATURES

- Advanced piezoresistance technology
- All stainless steel construction
- Industry-standard 4-20mA (2 wire) output
- Pressure ranges 0-2.5, 0-10 and 0-15 PSIG (custom ranges available)
- Accuracy of 0.5%
- Long-term stability
- Nose cone or 1/4 NPT thread available



DIMENSIONS



Dimensions are for reference only.

INSTALLATION & WIRING

Output: 4-20mA

Function	Color
Supply +	Green
Output +	White

SPECIFICATIONS

Performance @ 25°C (77°F)

Accuracy	± 0.5% FS (includes non-linearity, hysteresis and non-repeatability)
Stability	<±0.2% FS/year, typical
Thermal Error	1% FS
Over pressure protection	1.5X Rated Pressure
Burst Pressure	3X Rated Pressure
Pressure Cycles	>4 Million

Environmental Data

Operating temp	-20 to +80°C (-40 to +176°F)
Compensated range	-10 to 75°C (+14 to +167°F)

Electrical Data

Excitation	12-36 Vdc
Loop resistance @ 24 Vdc:	≤ 750 Ohm
Zero offset	<±1.0% of FS
Span tolerance	<±1.0% of FS

Physical data

Diaphragm material	316SS
Sealing material	Fluoro Rubber
Body material	316SS
Cable pull strength	300 lb.
Pressure connection	Bullet-Nose, 1/4" NPT
Electrical Connection	Molded, vented submersible cable (Polyethylene outer jacket)

HOW TO ORDER

Series	Output	Pressure Type	Pressure Range	Pressure Connection	Electrical Connection	Cable Length	Accuracy
SPT-80	A	G	0050	2NM	C	25	3

SPT-80 = 316 stainless steel	A = 4-20mA (2 wire) **	G = Gauge	0025= 0-2.5psi (69" WC) 0050= 0-5 psi (138" WC) 0100= 0-10 psi (277" WC) 0150= 0-15 psi (415" WC) 0200= 0-20 psi (554" WC) 0250= 0-25 psi (692" WC) 0500= 0-50 psi (1380" WC) **	Nose Cone 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)	C= Cable	05= 5 meter (16.4 ft) 10= 10 meter (32.8 ft) 15= 15 meter (49.2 ft) 20= 20 meter (65.6 ft) 25= 25 meter (82 ft) 30= 30 meter (98.4 ft) **	3= 0.5% **
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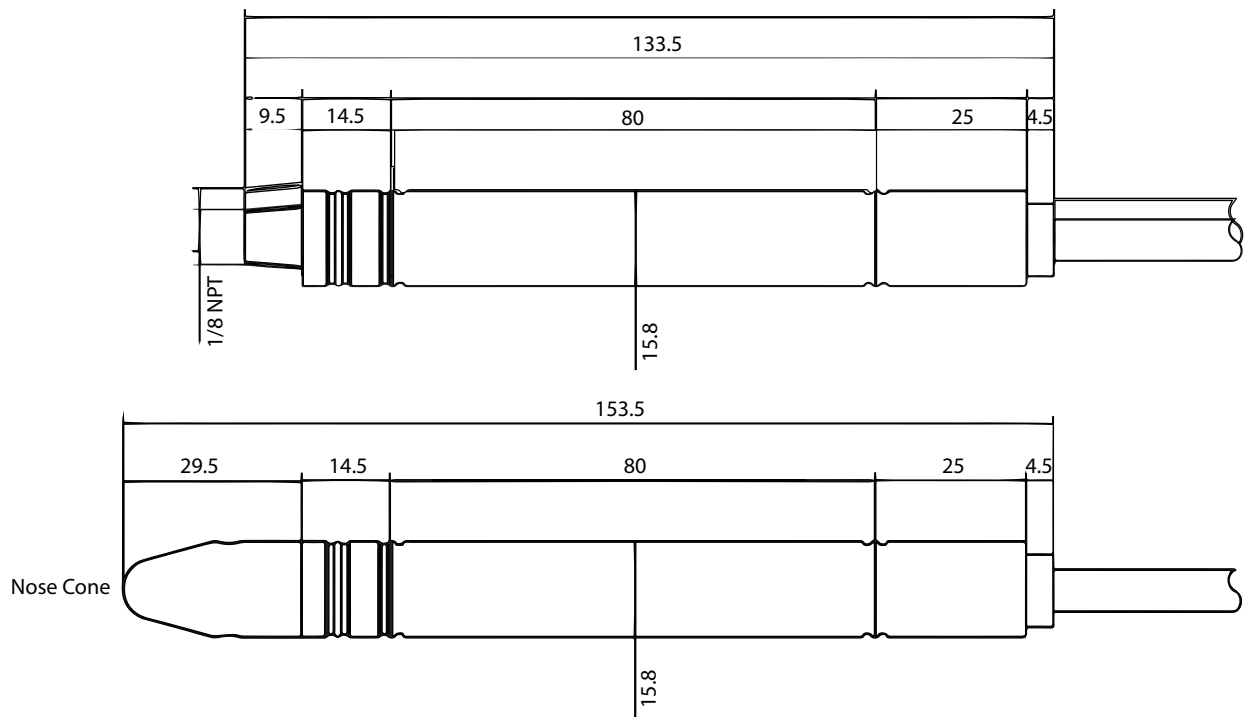
**= Consult factory for further options.

SPECIAL FEATURES

- Advanced piezoresistance technology
- All stainless steel construction
- Available with industry standard 4-20mA
- Pressure ranges from 1.5psi to 140psi (custom ranges available)
- Designed for Bore Hole applications
- Accuracy of 0.5%
- Long-term stability
- Nose cone or 1/8 NPT thread available



DIMENSIONS



Dimensions are for reference only.

INSTALLATION & WIRING

Signal	Function	Color	Electric connector type
4-20mA	Supply + Output +	Red Black	

SPECIFICATIONS

Performance @ 25°C (77°F)

Accuracy	± 0.5% FS (includes non-linearity, hysteresis and non-repeatability)
Stability	<±0.2% FS/year, typical
Thermal Error	1% FS
Over pressure protection	1.5X Rated Pressure
Burst Pressure	3X Rated Pressure
Pressure Cycles	>4 Million

Environmental Data

Operating temp	-20 to +80°C (-40 to +176°F)
Compensated range	-10 to 75°C (+14 to +167°F)

Electrical Data

Excitation	8-30 VDC
Loop resistance @ 24 Vdc:	≤ 750 Ohm
Zero offset	<±1.0% of FS
Span tolerance	<±1.0% of FS

Physical data

Diaphragm material	316SS
Sealing material	Welded (All Stainless Steel)
Body material	316SS
Cable pull strength	300 lb.
Pressure connection	Bullet-Nose, 1/8" NPT
Electrical Connection	Molded, vented submersible cable (Polyethylene outer jacket)

HOW TO ORDER

Series	Output	Pressure Type	Pressure Range	Pressure Connection	Electrical Connection	Cable Length	Accuracy
SPT-81	A	G	0050	2NM	C	25	3
SPT-81 = All 316 stainless steel	A= 4-20mA (2 wire) **	G = Gauge	0015= 0-1.5psi (41.5"WC) 0050= 0-5 psi (138"WC) 0100= 0-10 psi (277"WC) 0150= 0-15 psi (415"WC) 0200= 0-20 psi (554"WC) 0250= 0-25 psi (692"WC) 0500= 0-50 psi (1380"WC) 1400= 0-140psi (3879"WC) (There is an implied decimal point between the 3rd and 4th number ex. 0025 = 002.5) **	Nose Cone 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)	C= Cable	05= 5 meter (16.4 ft) 10= 10 meter (32.8 ft) 15= 15 meter (49.2 ft) 20= 20 meter (65.6 ft) 25= 25 meter (82 ft) 30= 30 meter (98.4 ft) **	3= 0.5% **

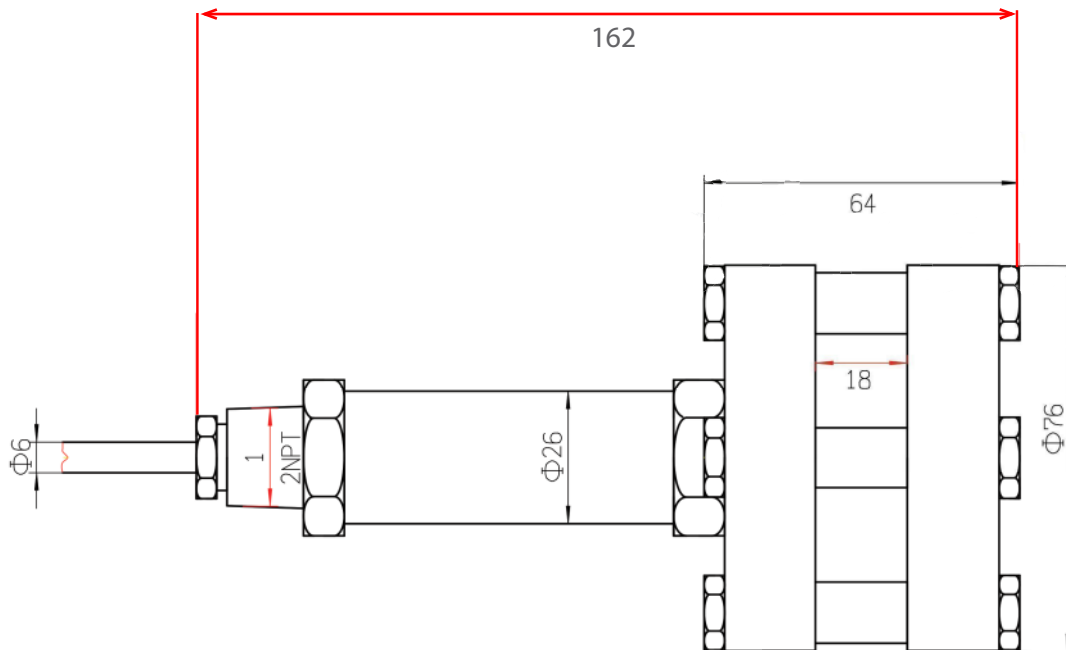
**= Consult factory for further options.

SPECIAL FEATURES

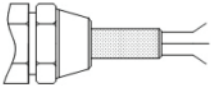
- Flush diaphragm transducer with debris avoidance standoff
- Industry-standard 4-20mA (2 wire) output
- Pressure ranges 0-5, 0-7.5, 0-10 and 0-15 PSIG
- Accuracy of 0.5%
- Long-term stability
- 316SS housing with 316SS diaphragm
- ETFE Cable (Ethylene Tetrafluoroethylene)
- EMI/RFI and reverse polarity protection
- Compatible with wide range of chemicals
- Rugged design for harsh waste water environments
- Suitable for waste, salt, brackish, or fresh water systems



DIMENSIONS



INSTALLATION & WIRING

Signal	Function	Color	Code	Electric connector type
1) 0-5V; 0-10V 0.5-4.5V	Supply V+	Red	1	
	Com	Black	2	
	Output+	White	3	
2) 4-20mA	Supply V +	Red	1	
	Output +	Black	2	

SPECIFICATIONS

Performance @ 25°C (77°F)

Accuracy	± 0.5% FS (includes non-linearity, hysteresis, and non-repeatability) <±0.2%
Stability	FS/year, typical
Thermal Error	1% FS
Over pressure protection	1.5X Rated Pressure
Burst Pressure	3X minimum
Pressure Cycles	>4 Million

Environmental Data

Operating temp	-40 to 85°C (-40 to +185°F)
Compensated range	-10 to 70°C (14 to 158°F)

Electrical Data

Excitation	8-30Vdc
Loop resistance @ 24 Vdc	≤ 800 Ohm
Load resistance @24 Vdc	≥ 3KΩ
Zero offset	<±1.0% of FS
Span tolerance	<±1.0% of FS

Physical data

Diaphragm material	316SS
Body material	316SS
Cable Pull Strength	280lb
Pressure Connection	Flush Diaphragm with Debris Standoff
Electrical Connection	Molded, vented submersible cable (ETFE outer jacket)
Rating	IP68

HOW TO ORDER

Series	Output	Pressure Type	Pressure Range	Pressure Connection	Electrical Connection	Cable Length	Accuracy
SPT-82	A	G	0050	30	C	50	3
SPT-82 = All 316 stainless steel	A= 4-20mA (2 wire)*	G = Gauge	0025= 0-2.5psi (69"WC) 0050= 0-5 psi (138"WC) 0100= 0-10 psi (277"WC) 0150= 0-15 psi (415"WC) 0200= 0-20 psi (554"WC) 0250= 0-25 psi (692"WC) 0500= 0-50 psi (1380"WC) (There is an implied decimal point between the 3rd and 4th number ex. 0025 = 002.5) **	30= Debris Avoidance Standoff	C= Cable	25 = 25 ft (7.62m) 50 = 50 ft (15.24m) 75 = 75ft (22.86m) 100 = 100 ft (30.48m) **	3= 0.5% **

**= Consult factory for further options.

SPECIAL FEATURES

- Compact and Economical Design
- Wide Temperature Measurement Range
- Industry Standard Analog Outputs
- 316 Stainless Steel Wetted Parts
- Excellent Long Term Stability
- OEM Tested and Approved



2014/34/EU



APPLICATIONS

- Hydraulic / Mobile Hydraulic
- Automated Systems
- Energy and water management
- Anywhere Accurate Temperature Measurement of fluids is required

DESCRIPTION

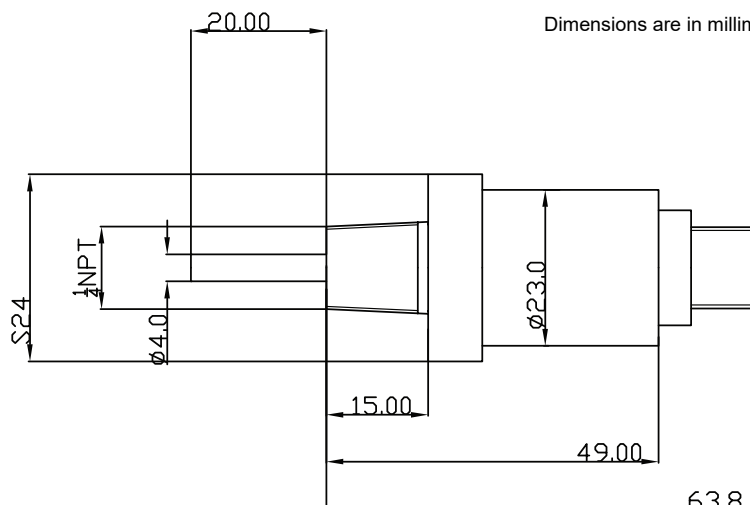
The ETT-01 series temperature transducer is built using dependable thermistor based sensing technology with industry standard voltage or current outputs.

Perfect for a wide range of applications, this solution is perfect for communicating accurate temperature measurements to panel mount displays, PLC's, or data acquisition systems.

ELECTRICAL CONNECTIONS

Signal	Function	Color	Pin	
0.5-4.5V	Supply V +	Brown	1	
0-5V	Output +	White	2	
0-10V	Com	Blue	3	
4-20mA	Supply V +	Brown	1	
	Output	Blue	3	

DIMENSIONS



Dimensions are in millimeters and for reference only

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy	1% FS
Stability	0.2% FS
Measuring Temperature Range	-40 to 200° C (-40 to 392° F)
Max Continuous Temperature	250° C (482° F) (media)
Operating Temperature Range	-40 to 85° C (-40 to 185° F) (electronics)
Current Consumption	23mA for 4-20mA 8mA for 0-5V 11mA for 0-10V
Max Pressure for 4mm Diameter Probe	70 bar (1015 psi)
Max Pressure for 6mm Diameter Probe	300 bar (4351 psi)
Max Pressure for 8mm Diameter Probe	500 bar (7252 psi)

Mechanical Configuration

Probe Lengths	50mm, 100mm, 150mm *
Process Connection	1/4 NPT (standard) *
Electrical Connection	4-pin M12 *
Ingress Rating	IP67 with T-Direct standard M12 cable
Housing	304 stainless steel
Wetted Parts	316SS

Input

Functional Supply Voltage / (Output)	10-30 VDC / (4-20mA) 0-30 VDC / (0-5 VDC) 12-32 VDC / (0-10 VDC) 5 VDC / (0.5-4.5 VDC) ratiometric 8-30 VDC (0.5-4.5 VDC) non-ratiometric
--------------------------------------	---

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

HOW TO ORDER

Series	Output	Range unit	Electrical Connection	Probe Length	Pressure Port	Temperature Range
ETT-01	A	PSI	M12x1	50	2NM	0-200° F

A = 4-20mA (2 wire)
B = 0-5VDC (3 wire)
**

PSI
BAR
Kg/cm²
MPa
kPa

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

50mm
100mm
150mm
**

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)

-40-392° F

**= Consult factory for further OEM options

SPECIAL FEATURES

- Compact and Economical Design
- High accuracy and a 4-digit display(5-digit display)
- Energy-efficient battery life of up to 1000 operating hours.
- ATEX 2014/34/EU as per EN IEC 60079-0:2018 & 60079-11:2012
- Max / Min pressure measurement
- IP Protection: IP67/ NEMA 4
- Zero reset Button
- Piezoresistive pressure sensor with SS316L wetted parts.
- Compensated Temperature -20 to 60°C (-4 to 140°F).
- Compliance to EN60079-0:2018 & EN60079-11:2012
- EX (intrinsically safe)



SPECIFICATIONS

- Zero point calibration
- Automatic shutdown
- Min / max display
- Overload Protection 1.5 X FS.
- Accuracy : 0,1 %FS , 0.25%FS , 0.4%FS.
- Pressure units: bar, psi, kPa, MPa, kg/cm2,inHg,Mbar, mm Hg.
- Pressure Ranges -1...0 bar to 0..1000 bar.
- Pressure ranges Absolute till 0 to 40bar
- Dial size:75mm(available in 100mm)
- 10 point traceable calibration certificate
- Cast Aluminium epoxy painted case
- 1-year continuous operation when powered up from 2 x 1.5V AA.
- 1 x Saft LS14500 3.6V Lithium AA battery
- Process Connections: 1/4" BSP, 1/4" NPT, 1/2" BSP, 1/2" NPT.
- Display: 4 digit (5 digit) with 14mm high characters.
- Storage. -20 to 85°C (-4 to 185°F)
- Ambient operating. -20 to 80°C (-4 to 176°F).
- Process Temperature Min and Max. -30 to 80°C (-22 to 176°F)

APPLICATIONS

- Process Industries
- Hazardous process applications
- Industrial applications & Pumps
- Calibration & Lab testing
- Chemical seals with different wetted exotic materials like MONEL 400, HASTELLOY C 276 and INCONEL 625/825 wetted parts depending up on process applications



Accuracy Parameters

Accuracy @ RT (20...25 °C)	$\leq \pm 0,1 \%FS$	Nonlinearity (BFSL), pressure hysteresis, non-repeatability, zero point deviation and amplification deviation
Total error band (0...50 °C)	$\leq \pm 0,2 \%FS$	Max. deviation within the specified pressure and temperature range
Compensated temperature range	-20...60 °C	
Long-term stability	$\leq \pm 0,2 \%FS$	Per year under reference conditions, yearly recalibration recommended
Degree of dependency on location	$\leq \pm 1,5 mbar$	Calibrated in vertical installation position with pressure connection facing downwards
Pressure range reserve	$\geq \pm 10 \%$	Valid measured values outside the pressure range, no overflow/underflow

ELECTRICAL DATA

- Battery 3 V,2 X 1.5V AA
- Type CR2430 hazardous applications DG-Ex75
- Battery life Up to 1000 hours When used continuously

LC-DISPLAY

- Dimensions : Width x Height : 27.8 mm X 30.0 mm
- Number of digits 4 on LCD (5 on LCD) 14MM Digit Height
- Display mode : Pressure
- Display interval: 2/s

MECHANICAL DATA

- Materials in contact with media
- Pressure connection : AISI 316SS
- Diaphragm: SS 316L All welded connection, NO O Ring
- Swivel Connection: SS316L

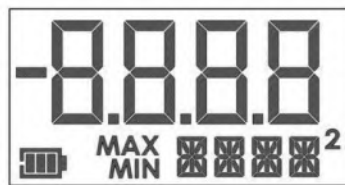
OTHER MATERIAL

- Display Housing : Aluminium
- Front Glass : LEXAN 163
- Pressure transducer oil filling : Silicone oil
- Swivel Connection: SS316L

FRONT COVER



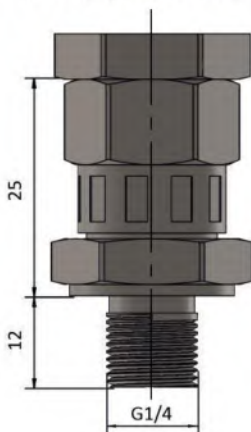
CONTENT



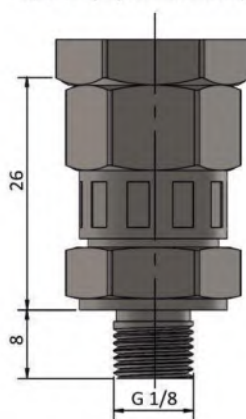
- *2 = Denotes Units

AVAILABLE PRESSURE CONNECTION

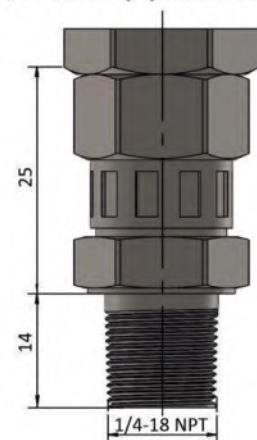
1/4"G (M) swivel adapter



1/8"G (M) swivel adapter



1/4"-18NPT (M) swivel adapter



OTHER CUSTOMER SPECIFIC OPTION

- Customer-specific front covers
- Customer-specific firmware with e.g. application-specific calculations
- Other oil filling types for pressure transducers: e.g. special oils for oxygen applications
- Other units of pressures can be configured ex works



EU Declaration of Conformity

Document No.: ESE-EI-001

Manufacturer: ELITE INSTRUMENTS PTE. LTD.

Address: 3014A MIT-KEPANG UBI #03-06 UBI ROAD 1 SINGAPORE 408703

Declaration under our sole responsibility that the following products:

Product: Pressure Transmitters, Temperature Transmitters,
Digital pressure gauges
Model: PT-03, PT-30, PT-31, PT-32, PT-33, PT-40, PT-41, PT-43, PT-70, SPT-80,
SPT-81, SPT-82, ETT-01, DG-75

are in conformity with the following relevant Union harmonization legislation

ATEX Directive 2014/34/EU

The compliance with the Essential Health and Safety Requirements has been assured with compliance with the following standards:

EN IEC 60079-0:2018

EN 60079-11:2012

Factory production control complying with the procedure regarding internal production control specified in Annex VIII of 2014/34/EU. Assessment of compliance of the product with the requirements relating to safety standards listed above was performed by manufacturer ELITE INSTRUMENTS PTE. LTD. Documents related to ATEX certification are deposited at SGS FIMKO (Technical documentation is archiving in SGS UK company).

The ATEX marking of product include the codes:



II 3GD

Ex ic IIC T4...T5 Gc

Ex ic IIIC T135°C...T100°C Dc Ta: -30°C~+80°C



For and on behalf of ELITE INSTRUMENTS PTE. LTD.

Signature: _____

Print Name: _____

S N Reddy

Title: _____

Managing Director

Place: _____

Singapore

Date: _____

2025/07/07





ABOUT US:

Elite instruments company having 20,500 square meter manufacturing area with 350 employees.

Elite instruments have daily production capacity of 20,000 instruments Per day.

Elite instruments total invested over 12 million into our equipment and buildings.

Elite Instruments is an ISO 9000:2015 certified manufacturing company for Measuring instruments and its accessories.

We manufacture

- Pressure gauges,
- Ultra-high-pressure gauges,
- Temperature gauges
- Diaphragm seals
- Accessories
- Thermowells
- Valves and Manifolds.
- Pressure, temperature and level transmitters

Headquartered at China, Elite Instruments also have manufacturing locations at

- China
- Saudi Arabia
- Mexico
- India to better serve our customers.

We also have Distributors at

- TURKEY
- NETHERLANDS
- United States of America,
- CANADA
- MEXICO
- BRAZIL.

Elite instruments Established in 2010, we deliver over 8 million quality products per year 75 countries every year.

Currently Worldwide, estimated 6 million ELITE measuring instruments are in use. Elite serves a wide variety of industries worldwide, including:

- Oil and Gas
- Chemical and Petrochemical
- Food and Pharmaceutical
- Water and Wastewater
- Engineering and Process

Elite Instruments' customer service is fast and flexible. We always put our CUSTOMER FIRST.

Let us prove that we are the best choice for your manufacturer of measuring instruments.

Elite also specializes in developing custom-built OEM products as per customer exact requirements.

Our proficient team of engineers will work to bring your custom design products to life, or work with you to create new products designed to meet your exact needs.

Our customers have testified that the Quality, workmanship, appearance and packaging of Elite products are second to none.

Please visit our website www.elite-instruments.com or send your enquiry to sales@elite-instruments.com

www.elite-instruments.com



Manufacturing Units

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Email : sales@elite-instruments.com /snreddy@elite-instruments.com