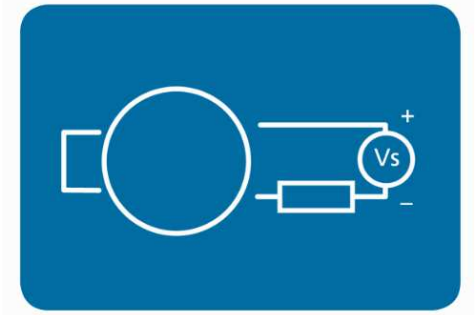
PTX130/1, PTX130/2 PRESSURE TRANSMITTER

- MEASURING RANGE (0 to 2) bar to (0 to 250) bar
- GAUGE, SEALED GAUGE OR ABSOLUTE RANGES
- CHOICE OF PROCESS CONNECTIONS
- 2 WIRE (4 to 20) mA OUTPUT/ VOLTAGE OUTPUTS
- REVERSE POLARITY PROTECTION



INTRODUCTION

The PTX130 pressure transmitter series has a piezo-resistive ceramic pressure sensor giving it excellent media compatibility. Constructed of stainless steel, it is available with a wide variety of process connections, and every device is temperature compensated.
The electronics are microprocessor based which means no manual adjustment is needed. The product can be ordered with current or voltage output and has excellent temperature stability.

FEATURE HIGHLIGHTS

PRESSURE TYPE OPTIONS
The PTX130 is available in Gauge, Sealed Gauge and Absolute range versions.

PROCESS CONNECTIONS
A wide range of process connection options are available for the PTX130, making it suitable for a variety of applications across industrial and food and beverage applications.

ALARM RELAYS (SEM1636)
When the PTX130 is used with products like the Status Instruments SEM1636 (4 to 20) mA loop powered alarm, two independent alarm trips can be used. The SEM1636 can also be linearised for non-standard tanks.

FLEXIBLE OUTPUT
The PTX130 can be ordered with a (4 to 20) mA loop powered output, or with a variety of voltage-type output options.

TANK LINEARISATION (SEM1600VI)
When used with products like the Status Instruments SEM1600VI conditioning block (the SEM1600VI can also provide power for the PTX130), a user non-linear curve can be applied to the (4 to 20) mA signal to allow for volume measurement in non-linear shaped tanks.

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ELECTRICAL INPUT			**SPECIFICATIONS @20°C**
Type/Range	**Notes**	**Error/stability**	
Pressure in bar	Nominal pressure/ compound range	Permissible overpressure	Burst pressure
	0.5	1	2
	1 -1 to 0	2	4
	2 -1 to 2	4	5
	5 -1 to 5	10	12
	10 -1 to 9	20	25
	20 -1 to 19	40	50
	50 -1 to 29	100	120
	100	200	250
	250	400	500
	400	650	650
	600	880	880
	700	880	880
Accuracy	Options for non-linearity & hysteresis	Setting errors (offsets) zero & full scale	
	≤ ±0.25% FS[*1]	≤ ±0.5% FS	
	≤ ±0.1% FS[*1]	≤ ±0.5% FS	
Thermal shift zero Options See order codes	Option 4	≤ ±0.04% FS/°C	
	Option 2	≤ ±0.02% FS/°C	
	Option 1	≤ ±0.01% FS/°C	
Thermal shift span		≤ ±0.015% FS/°C	
FS = Full scale input range			
[*1] Best fit straight line			

OUTPUT (4 to 20) mA loop or 3 wire Voltage		**SPECIFICATIONS @20°C**
Type/options	**Range**	**Accuracy/stability/notes**
(4 to 20) mA two wire	To order	Accuracy included in input values
Supply voltage	(9 to 32) Vdc[*1]	SELV
Supply influence		<0.05 % FS
Load resistance	Maximum	Load = $\frac{\text{V supply} - 9}{0.02\ \text{A}}$
Load resistance influence		<0.05 % FS
3 Wire voltage	Minimum load	10 kΩ
Protection	mA, V	Reverse polarity
[*1]For mA output see order codes for voltage output options		

TEMPERATURE	
Standard media temperature	(-20 to 135) °C
Extended media temperature	(-20 to 150) °C[*1]
Ambient temperature	(-20 to 80) °C
Compensated temperature range	(20 to 80) °C
[*1] Cooler option	

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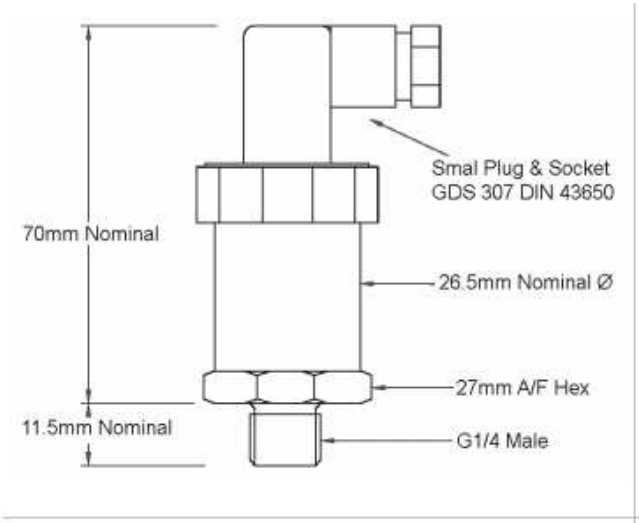
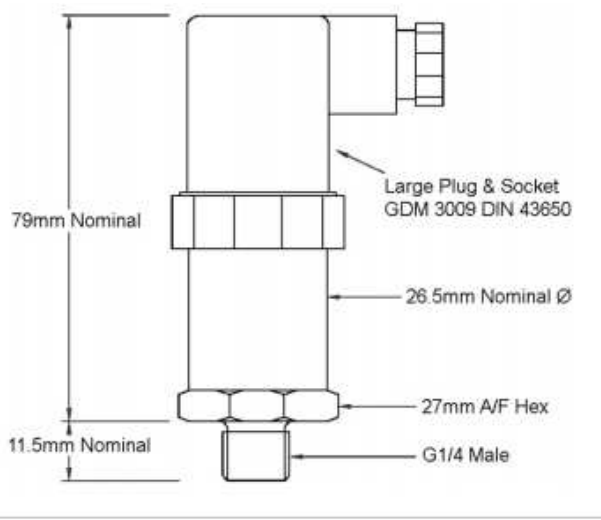
MECHANICAL	
Transducer Housing	Stainless Steel 303
Seals	Standard Viton, optional (NBR, EPDM, Chemraz)
Shock	100 g / 11 ms
Vibration	10 g RMS (20 to 2000) Hz
Weight approximately	100 g
Diaphragm	Ceramic $Al_2O_3$96 %
Electromagnetic compatibility	CE Compliant

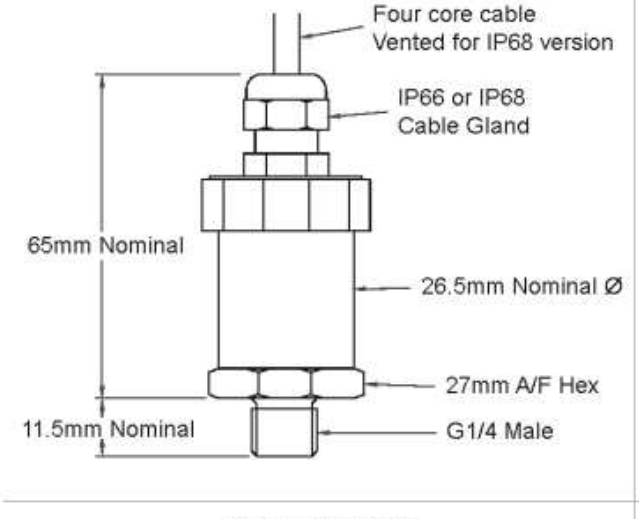
Mechanical



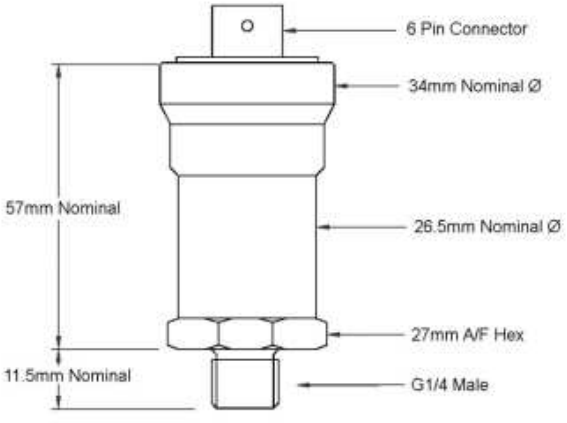
Small Plug & Socket
IP65, GDS 307 DIN 43650 Ø



Large Plug & Socket
IP65, GDM 3009 DIN 43650



Cable Gland Assembly
IP65 gland, screened PVC industrial cable



Amphenol Connector
6 pin, IP67, IP54 on gauge versions

PTX130/1, PTX130/2 PRESSURE TRANSMITTER

ORDER CODE PTX130

Absolute	A		Pressure sensor type
Gauge	G		
Sealed Gauge	S		
Over (2 to 700) bar	1		Range
(-1 to 1) and (0 to 2) bar	2		
Output			Supply
(4 to 20) mA, 2-wire	5		(9 to 32) Vdc
(0 to 5) V, 3-wire	6		(9 to 32) Vdc
(0 to 10) V, 3-wire	10		(13 to 32) Vdc
(1 to 5) V, 3-wire	8		(9 to 32) Vdc
(1 to 10) V, 3-wire	A		(13 to 32) Vdc
(1 to 6) V, 3-wire	B		(9 to 32) Vdc
(0 to 6) V, 3-wire	C		(9 to 32) Vdc
Accuracy ≤ ±0.25% FS	A		
Option ≤ ±0.1% FS	B		
Thermal shift zero <±0.04%/FS/°C	4		
Options <±0.02%/FS/°C	2		
<±0.01%/FS/°C	1		
Electrical Connection			
Large Plug & Socket (GDM3009, DIN43650)	B		
Options			
Small Plug & Socket (GDS307, DIN43650)	A		
Screened Cable via IP66 gland	C		
Amphenol 6 pin Bayonet connector	D		
Vented Cable via IP68 Gland	E		
Binder 6 Pin 723 Series connector	F		
M12 x 1, 4 Pin connector	G		
Process connection			
G¼" Male DIN3852	A		
Options			
G¼" Male DIN3852 (316 St/St)	B		
G½" Male DIN3852	F		
G¼" Male DIN3852, 150 °C Integrated Cooler	P		
G½" Male DIN3852, 150 °C Integrated Cooler	Q		
G¼" Male DIN3852, HG St/St (UNS31803)	I		
G¼" Female (303 St/St)	E		
¼" NPT Male	C		
½" NPT Male	G		
7/16 UNF – 20	D		
9/16 UNF Internal Thread	H		
O Ring Material Viton	V		
Options: NBR	N		
EPDM	E		
Chemraz	C		
Option cable length in meters			Add where applicable
Pressure range, can be given in preferred engineering units			(Low to High) bar

EXAMPLE: Sealed gauge, (0 to 5) bar, (4 to 20) mA output, ≤ ±0.25% accuracy, standard thermal shift, large plug and socket, ¼" male process connection, Viton seals.

	PTX130	**S**	**2**	**5**	**A**	**4**	**B**	**A**	**V**	**-**	**(0 to 5) bar**	