



Datasheet Stock No.s: 1024153,1024154, 1024155, 1024156, 1024157, 1024158, 1024159, 1024160, 1024161 IPSLAT series - Low Range, Intrinsically Safe Pressure Sensor



Approvals:-ATEX / IECEx ⓒ II Ex ia IIC T4 Ga Ta (see schedule)



- Piezo-resistive sensor
- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL
- Pressure ranges from 50 mbar to 1000 mbar
- Gauge or Absolute pressure reference

The IPSLAT is suitable for use in a wide range of applications in hazardous areas. The probe uses a piezo-resistive silicon sensor, giving excellent media compatibility within an oil filled 316L stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially in high vibration/shock applications.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data*.

There is a choice of internal O ring seals to ensure that the device is compatible with a wide range of media.



Performance

Accuracy (Non-Linearity & Hysteresis)<±0.25% / FS (BFSL) for gauge, <±0.5% for Absolute</th>Setting Errors (offsets)2-wireZero & Full Scale, <±0.5% / FS</td>

Options available on the IPSLAT pressure transmitter.

Pressure range Pressure reference (G or Abs)

Made in the UK

Material Specifications				
Housing "O" ring seals Diaphragm	316 Stainless Steel Viton 316L Stainless Steel			
Media wetted parts	Housing & connection, "O" ring seal, diaphragm			
Miscellaneous				
Weight Installation position	Approx 100g Any, small zero shift when tilted through 90°			
Operational Life Insulation resistance	$> 100x 10^6$ cycles > 50MOhms at 50Vdc			

Electrical Protection

Supply reverse polarity Electromagnetic compatibility No damage/no function CE Compliant

Mechanical Stability	
Shock	100g / 11s
Vibration	10g RMS (20 - 2000Hz)
Environment & Thermal Effects	
Media Temperature	-20°C to +120°C
Storage temperature	-40°C to +110°C
Compensated temperature range	+20°C to +80°C
Thermal Zero Shift (TZS)	<±0.04% /FS/°C
Thermal Span Shift	<-0.015% /°C
Permissible environment zone 0	-20°C to +60°C
	with patm 0.8 to 1.1 bar

IPSLAT RS Pro 2017 Specifications are subject to change without prior notice.

*Calibration data is supplied as a sticker affixed to the product packaging - do not discard





IPSLAT series - *Low Range, Intrinsically Safe Pressure Sensor*

Drossuro Dangoo						
Pressure Ranges Nominal Pressure, Gauge, mbar	50	100	250	500	750	1000
Nominal Pressure, Absolute mbar	50	100	200	500	750	1000
Permissible Overpressure mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar
Quantum Circuit and Cumply Valtage	DIN 42050					
Output Signal and Supply Voltage Wire system Output	DIN 43650 Supply Volts	,	Connection	Pin	No.	
2-wire 4-20mA	10-28Vdc		+ve Supply	Pin		
		-ve Supply Ground		Pin		
				Ear	Earth pin	
		Devit Nie				
		Part No	Pressure Rang	je		
		1024153	0 - 50mbar G			
		1024154	0 - 100mbar G			
		1024155	0 - 250mbar G			
		1024156	0 - 500mbar G			
		1024157	0 - 750mbar G			
		1024158	0 - 1000mbar (6		
		1024159	0 - 500mbar Al			
		1024160	0 - 750mbar Al			
		1024161	0 - 1000mbar A			
Mechanical Dimensions	108mm (4.25")		Din cor Ø4 (Ø1 (othe on re Ø2 (Ø0 18.0 A/F	5 rated 43650 nnector "Imm .6") inless Steel r materials availate quest) 24.0mm (0.71") "Hex " BSPP male rs available quest)		
Made in the UK					<mark>(Ex</mark>	IEĈE X