



IPS Series

Industrial Pressure Transducer - Ceramic



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL
- Various outputs including mV, Volts and mA.
- Pressure ranges from -1 to 400 bar

The IPS series is suitable for use in a wide range of industrial applications. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially industrial applications..

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

Electrical Protection					Pe	erformand	e				
Supply reverse polarity		No damage/no function CE Compliant				Accuracy (Non-Linearity & Hysteresis Setting Errors (offsets) 2-wire).25% / FS (BFSL)	
Electromagnetic compat	IDIIITY	CE COIL	ipiiant		36	ettilig Ello	is (onsets)	2-wir		0 & Full Scale, <±0.5% / FS 0 & Full Scale, <±0.5% / FS	
								4-wir		& Full Scale, <±0.5% / FS	
Environmental Conditions										@ 10 Volts	
Shock	100g / 11s				Material Specifications						
Vibration		10g RMS (20 - 2000Hz)			Н	Housing			303 Stainless Steel		
Media Temperature		-40°C to +135°C				"0" ring seals Viton					
Ambient Temperature		-20°C to +80°C				Diaphragm Cera			mic Al ₂ O ₃ 96%		
Storage temperature		-40°C to +125°C				edia wette		Housing & connection, "O" ring seal,			
Humidity	5% to 95% RH non-condensing				diaphragm			0	3 ,		
Thermal Effects									rox 100g		
Compensated temperature range		+20°C to +80°C			In	Installation position Any			Ü		
Thermal Zero Shift (TZS)		<±0.04% /FS/°C			0	Operational Life		> 100x 10 ⁶ cycles			
Thermal Span Shift		<±0.015% /°C			In	sulation r	> 50M0hms at 50Vdc				
Pressure Ranges and Passive mV/V Outputs											
Nominal Pressure, Gauge		1	2	5	10	20	50	100	250	400	
Compound range	bar	-1 to 0	-1 to 2	-1 to 5	-1 to 9	-1 to 19	-1 to 24				
Permissible Overpressure	e bar	2	4	10	20	40	100	200	400	650	
Burst Pressure	bar	4	5	12	25	50	120	250	500	650	
Output Signals and Sup	ply Voltages										
Wire system	Output		Supply	Voltage	C	onnection	Pin Nos				
	4-20mA		9-32Vd			ve Supply		-ve Supply		Ground Earth Pin	
3-wire	0-5Vdc		9-32Vd	С		ve Supply		-ve Supply			
						ve Output		Ground	Earth Pi	n	
4-wire (amplified)	10mV/V (rat	iometric)	3-12Vd	С		ve Supply		-ve Supply			
					+	ve Output	Pin 3	-ve Output	Earth Pi	n	

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

ISO9001certified

cynergy3-ips-v3 www.cynergy3.com





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Part Number	Pressure Rating	Output
IPS-G1000-3	0 - 1 Bar G	0 - 100mV
IPS-G1000-5	0 - 1 Bar G	4 - 20mA
IPS-G1000-6	0 - 1 Bar G	0 - 5V
IPS-G6000-3	0 - 6 Bar G	0 - 100mV
IPS-G6000-5	0 - 6 Bar G	4 - 20mA
IPS-G6000-6	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6	-1 to +9 Bar G	0 - 5V
IPS-G1002-3	0 - 10 Bar G	0 - 100mV
IPS-G1002-5	0 - 10 Bar G	4 - 20mA
IPS-G1002-6	0 - 10 Bar G	0 - 5V
IPS-G1602-3	0 - 16 Bar G	0 - 100mV
IPS-G1602-5	0 - 16 bar G	4-20mA
IPS-G1602-6	0 - 16 bar G	0-5V
IPS-C0184-5	-1 to +24 Bar G	4 - 20mA
IPS-C0184-6	-1 to +24 Bar G	0 - 5V
IPS-G2502-3	0 - 25 Bar G	0 - 100mV
IPS-G2502-5	0 - 25 Bar G	4 - 20mA
IPS-G2502-6	0 - 25 Bar G	0 - 5V
IPS-G4002-3	0 - 40 Bar G	0 - 100mV
IPS-G4002-5	0 - 40 Bar G	4 - 20mA
IPS-G4002-6	0 - 40 Bar G	0 - 5V
IPS-G1003-3	0 - 100 Bar G	0 - 100mV
IPS-G1003-5	0 - 100 Bar G	4 - 20mA
IPS-G1003-6	0 - 100 Bar G	0 - 5V
IPS-G2503-3	0 - 250 Bar G	0 - 100mV
IPS-G2503-5	0 - 250 Bar G	4 - 20mA
IPS-G2503-6	0 - 250 Bar G	0 - 5V
IPS-G4003-3	0 - 400 Bar G	0 - 100mV
IPS-G4003-5	0 - 400 Bar G	4 - 20mA
IPS-G4003-6	0 - 400 Bar G	0 - 5V

