



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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IPSU Series

Industrial Pressure Transducer - Ceramic



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy $\leq \pm 0.25\%$ FS BFSL
- Various outputs including mV, Volts and mA.
- Pressure ranges from vacuum to +5800psi
(Custom ranges available on request)

The IPSU 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 for industrial applications.

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

Electrical Protection		Performance	
Supply reverse polarity	No damage/no function	Accuracy (Non-Linearity & Hysteresis)	$\leq \pm 0.25\%$ / FS (BFSL)
Electromagnetic compatibility	CE Compliant	Setting Errors (offsets)	2-wire Zero & Full Scale, $\leq \pm 0.5\%$ / FS
			3-wire Zero & Full Scale, $\leq \pm 0.5\%$ / FS
			4-wire Zero & Full Scale, $\leq \pm 0.5\%$ / FS @ 10 Volts

Mechanical Stability		Material Specifications	
Shock	100g / 11s	Housing	303 Stainless Steel
Vibration	10g RMS (20 - 2000Hz)	"O" ring seals	Viton
Temperatures & Thermal Effects		Diaphragm	Ceramic Al ₂ O ₃ 96%
Media Temperature	-40°C to +135°C	Media wetted parts	Housing & connection, "O" ring seal, diaphragm
Ambient Temperature	-20°C to +80°C	Weight	Approx 3.5oz (100g)
Storage temperature	-40°C to +125°C	Installation position	Any
Compensated temperature range	+20°C to +80°C	Operational Life	> 100x 10 ⁶ cycles
Thermal Zero Shift (TZS)	$\leq \pm 0.04\%$ /FS/°C	Insulation resistance	> 50MΩ at 50Vdc
Thermal Span Shift	$\leq \pm 0.015\%$ /°C		

Pressure Ranges and Passive mV/V Outputs									
Nominal Pressure, Gauge, psi	15	30	75	150	300	750	1500	3750	6000
Compound range psi	-15 to 0	-15 to 30	-15 to 75	-15 to 1235	-15 to 285	-15 to 360			
Permissible Overpressure psi	30	60	150	300	600	1500	3000	6000	9750
Burst Pressure psi	60	75	180	375	750	1800	3750	7500	9750

Output Signals and Supply Voltages					
Wire system	Output	Supply Voltage	Connection Pin Nos		
2-wire	4-20mA	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin
3-wire	0-5Vdc	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	
			+ve Output Pin 3	Ground Earth Pin	
4-wire (amplified)	10mV/V (ratiometric)	3-12Vdc	+ve Supply Pin 1	-ve Supply Pin 2	
			+ve Output Pin 3	-ve Output Earth Pin	

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ISO9001 CERTIFIED

IPSU 2016

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IPSU Series

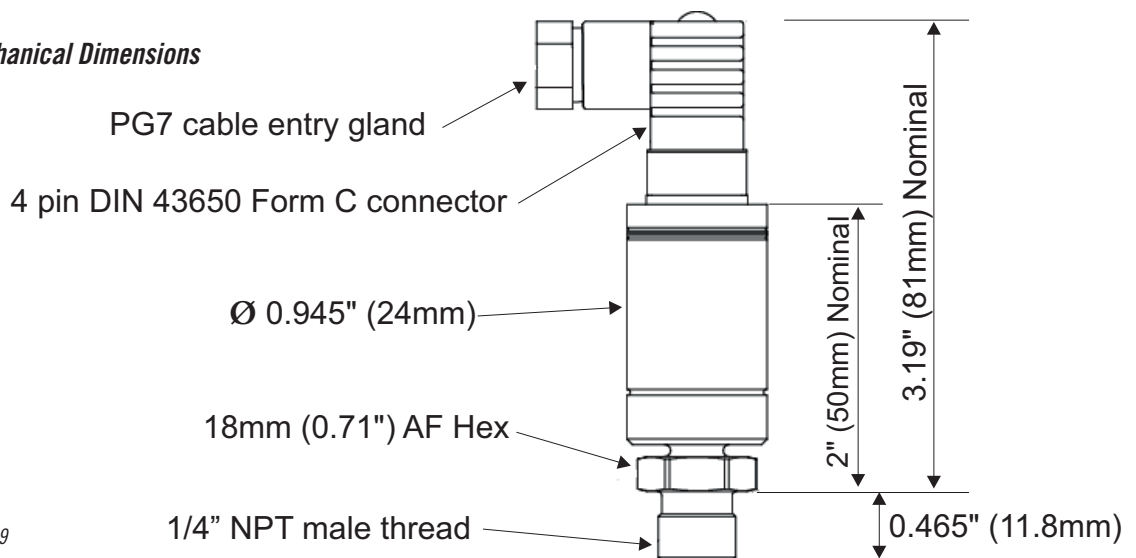
Industrial Pressure Sensor - Ceramic

Part Number	Range	Output
IPSU-GP015-3	0-15 psi G	0-100mV
IPSU-GP015-5	0-15 psi G	4-20mA
IPSU-GP015-6	0-15 psi G	0-5V
IPSU-GP030-3	0-30 psi G	0-100mV
IPSU-GP030-5	0-30 psi G	4-20mA
IPSU-GP030-6	0-30 psi G	0-5V
IPSU-C0446-5	-14.5 to +150 psi G	4 - 20mA
IPSU-C0446-6	-14.5 to +150 psi G	0-5V
IPSU-GP075-3	0-75 psi G	0-100mV
IPSU-GP075-5	0-75 psi G	4-20mA
IPSU-GP075-6	0-75 psi G	0-5V
IPSU-GP100-3	0-100 psi G	0-100mV
IPSU-GP100-5	0-100 psi G	4-20mA
IPSU-GP100-6	0-100 psi G	0-5V
IPSU-C0447-5	-14.5 to +350 psi G	4-20mA
IPSU-C0447-6	-14.5 to +350 psi G	0-5V
IPSU-GP150-3	0-150 psi G	0-100mV
IPSU-GP150-5	0-150 psi G	4-20mA
IPSU-GP150-6	0-150 psi G	0-5V
IPSU-GP300-3	0-300 psi G	0-100mV
IPSU-GP300-5	0-300 psi G	4-20mA
IPSU-GP300-6	0-300 psi G	0-5V
IPSU-GP750-3	0-750 psi G	0-100mV
IPSU-GP750-5	0-750 psi G	4-20mA
IPSU-GP750-6	0-750 psi G	0-5V
IPSU-GP1K5-3	0-1500 psi G	0-100mV
IPSU-GP1K5-5	0-1500 psi G	4-20mA
IPSU-GP1K5-6	0-1500 psi G	0-5V
IPSU-GP3K6-3	0-3600 psi G	0-100mV
IPSU-GP3K6-5	0-3600 psi G	4-20mA
IPSU-GP3K6-6	0-3600 psi G	0-5V
IPSU-GP5K8-3	0-5800 psi G	0-100mV
IPSU-GP5K8-5	0-5800 psi G	4-20mA
IPSU-GP5K8-6	0-5800 psi G	0-5V

Part Number	Range	Output
IPSU-G1000-3	0-1bar G (0-14.5psi)	0-100mV
IPSU-G1000-5	0-1bar G (0-14.5psi)	4-20mA
IPSU-G1000-6	0-1bar G (0-14.5psi)	0-5V
IPSU-G6000-3	0-6bar G (0-87psi)	0-100mV
IPSU-G6000-5	0-6bar G (0-87psi)	4-20mA
IPSU-G6000-6	0-6bar G (0-87psi)	0-5V
IPSU-GM1P9-5	-1 to +9 Bar G	4 - 20mA
IPSU-GM1P9-6	-1 to +9 Bar G	0-5V
IPSU-G1002-3	0-10bar G (0-145psi)	0-100mV
IPSU-G1002-5	0-10bar G (0-145psi)	4-20mA
IPSU-G1002-6	0-10bar G (0-145psi)	0-5V
IPSU-G1602-3	0-16bar G (0-232psi)	0-100mV
IPSU-G1602-5	0-16bar G (0-232psi)	4-20mA
IPSU-G1602-6	0-16bar G (0-232psi)	0-5V
IPSU-C0184-5	-1 to +24bar G	4-20mA
IPSU-C0184-6	-1 to +24bar G	0-5V
IPSU-G2502-3	0-25bar G (0-363psi)	0-100mV
IPSU-G2502-5	0-25bar G (0-363psi)	4-20mA
IPSU-G2502-6	0-25bar G (0-363psi)	0-5V
IPSU-G4002-3	0-40bar G (0-580psi)	0-100mV
IPSU-G4002-5	0-40bar G (0-580psi)	4-20mA
IPSU-G4002-6	0-40bar G (0-580psi)	0-5V
IPSU-G1003-3	0-100bar G (0-1405psi)	0-100mV
IPSU-G1003-5	0-100bar G (0-1405psi)	4-20mA
IPSU-G1003-6	0-100bar G (0-1405psi)	0-5V
IPSU-G2503-3	0-250bar G (0-3626psi)	0-100mV
IPSU-G2503-5	0-250bar G (0-3626psi)	4-20mA
IPSU-G2503-6	0-250bar G (0-3626psi)	0-5V
IPSU-G4003-3	0-400bar G (0-5802psi)	0-100mV
IPSU-G4003-5	0-400bar G (0-5802psi)	4-20mA
IPSU-G4003-6	0-400bar G (0-5802psi)	0-5V

(Custom ranges and outputs available on request)

Mechanical Dimensions



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