

# 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 data\*

### Electrical Protection

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

### Performance

Accuracy (Non-Linearity & Hysteresis)	$\leq \pm 0.25\%$ / FS (BFSL)	
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

Shock	100g / 11s
Vibration	10g RMS (20 - 2000Hz)

### Material Specifications

Housing	303 Stainless Steel
"O" ring seals	Viton
Diaphragm	Ceramic Al <sub>2</sub> O <sub>3</sub> 96%
Media wetted parts	Housing & connection, "O" ring seal, diaphragm
Weight	Approx 3.5oz (100g)
Installation position	Any
Operational Life	> 100x 10 <sup>6</sup> cycles
Insulation resistance	> 50MΩ at 50Vdc

### Temperatures & Thermal Effects

Media Temperature	-40°C to +135°C
Ambient Temperature	-20°C to +80°C
Storage temperature	-40°C to +125°C
Compensated temperature range	+20°C to +80°C
Thermal Zero Shift (TZS)	$\leq \pm 0.04\%$ /FS/°C
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 125	-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
4-wire (amplified)	10mV/V (ratiometric)	3-12Vdc	+ve Supply Pin 1	-ve Supply Pin 2	+ve Output Pin 3

Cynergy3 Components Ltd.  
7 Cobham Road  
Ferndown Industrial Estate  
Wimborne, Dorset BH21 7PE  
Telephone +44 (0) 1202 897969

Email: sales@cynergy3.com

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

ISO9001 CERTIFIED

IPSU 2018



www.cynergy3.com

# IPSU Series

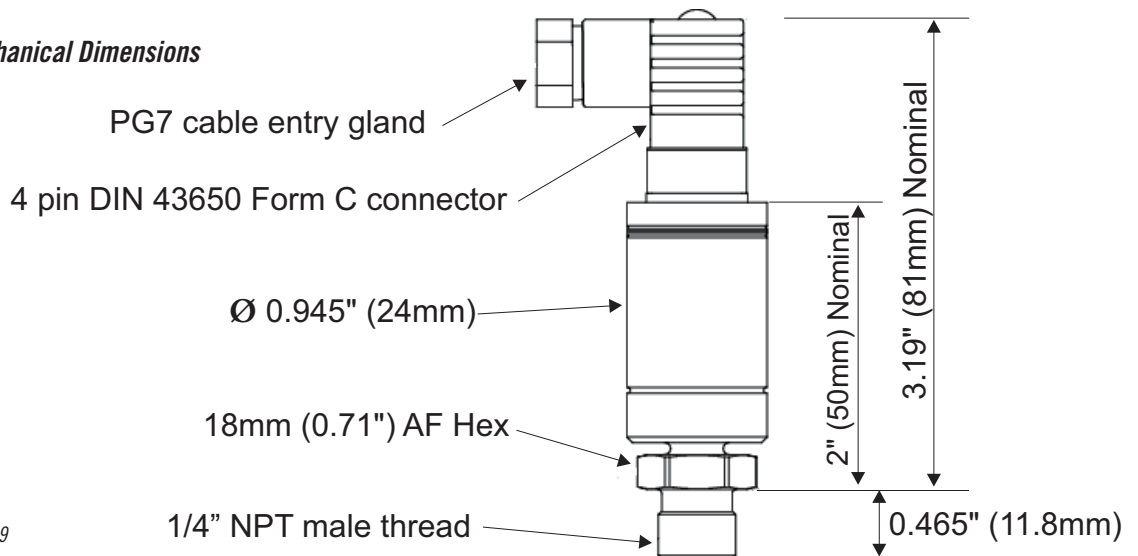
## Industrial Pressure Sensor - Ceramic

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



Cynergy3 Components Ltd.  
7 Cobham Road  
Ferndown Industrial Estate  
Wimborne, Dorset BH21 7PE  
Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com

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