



Features

- O Ranges: 1000, 2000, 3000 bar
- Stainless steel single piece diaphragm
- 1/2" BSPP male pressure port
- High insulation resistance, making it suitable for intrinsically safe applications
- 1000om bridge resistance
- Cable gland or integral connector output versions available

Typical Applications

- Engine test stand
- Brake testing
- Pipeline instrumentation
- Water jets (cleaning & blasting
- Hydraulic control systems

BP70 High Range Strain Gauge Pressure Transducer

Description

The LCM Systems range of Pioden transducers has been widely used for many years. The BP70 has been specifically developed for high pressure applications where a robust and accurate sensor is required. The accuracy achieved with the BP70, and the high quality that comes as standard with LCM system products, makes it the first choice for many applications.

The BP70 can be further enhanced to meet specific application requirements including improved temperature compensation or matched outputs.

LCM Systems can also supply the BP70 with any one of the many instruments in our range, offering a complete integrated instrumentation package from a single source.

Specification

Pressure Range (bar)	1000, 2000, 3000		
Over pressure range	150% (110% for 3000 bar version)		
Burst pressure	5400 bar		
Output sensitivity	1000 bar = 0.5mV/V		
	2000 bar = 1mV/V		
	3000 bar = 1.5V/V		
Zero offset	<±0.01mV/V		
Accuracy	<±0.25% of full scale output (FSO)		
Repeatability	<±0.1% FSO		
Excitation voltage	10vdc recommended, 15vdc maximum		
Bridge resistance	1000Ω		
Operating temperature range	-20 to +70°C		
Compensated temperature range	+10 to +70°C		
Zero temperature coefficient	<±0.01% of FSO/°C		
Span temperature coefficient	<±0.01% of FSO/°C		
Environmental protection level	IP67		
Connection type	Cable version: 3 metres PUR 4-core cable		
	Connector version: MIL-26482		
Wiring connections	+supply: Red (Pin A) -supply: Blue (Pin B)		
	+signal: Green (Pin C) -signal: Yellow (Pin D)		
Pressure port	1/2" BSPP male		

Available Options

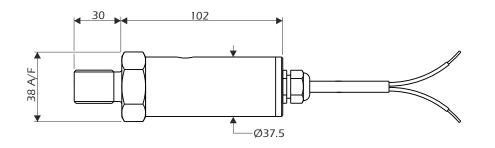
- 1000Mohm @1000vdc insulation resistance
- <±0.005@FSO/°C temperature coefficient
- Output rationalised to <±0.2%
- TEDS option (when used with TR150 handheld display)
- Other special versions available



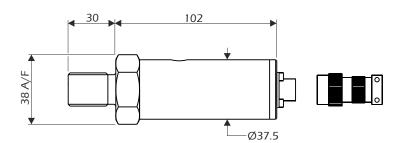
BP70 High Range Strain Gauge Pressure Transducer

Dimensions

Integral Cable Version



Integral Connector Version



Rating (bar)	Weight (g)	Resolution (bar)
1000	100	2
2000	100	5
3000	100	5



www.lcmsystems.com

LCM Systems Ltd

Jnit 15, Newport Business Park, Barry Way Newport, Isle of Wight PO30 5GY UK Tel: +44 (0)1983 249264 sales@lcmsystems.com www.lcmsystems.com

Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

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OLCM SYSTEMS Solutions in Load Cell Technology

All dimensions are in mm