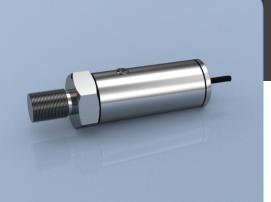
## TYPE: BP70





• Ranges: 1000, 2000, 3000 bar

● 1/2" BSPP male pressure port

• 1000om bridge resistance

O High insulation resistance, making

• Cable gland or integral connector

• Stainless steel single piece diaphragm

**Features** 

# **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 = $0.5 \text{mV/V}$	
	2000 bar = 1mV/V	
	3000  bar = 1.5 V/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	

## **Typical Applications**

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

## **Available Options**

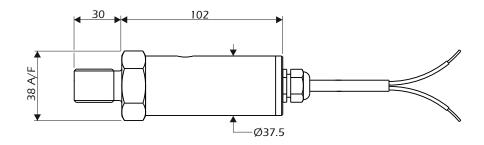
- 1000Mohm @1000vdc insulation resistance
- <±0.005@FSO/°C temperature coefficient
- Output rationalised to <±0.2%
- TEDS option (when used with TR150 handheld display)
- Other special versions available



# **BP70 High Range Strain Gauge Pressure Transducer**

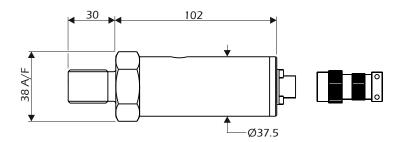
#### **Dimensions**

#### **Integral Cable Version**



All dimensions are in mm

#### **Integral Connector Version**



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



#### LCM Systems (România)

#### Issue No. 1

Issue date: 05/12/2014 **APPROVED** (unapproved if printed)

