

## Description

The LCM Systems range of Piden 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 Systems products makes it the first choice for many applications.

The BP70 can be further enhanced to meet your specific application requirements with any one of the many options that are available, 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.

## Typical Applications

- Engine test stand
- Brake testing
- Pipeline Instrumentation
- Water Jets (cleaning & blasting)
- Hydraulic Control Systems

## BP70 High Range Pressure Transducer



## Features

- Ranges 1000, 2000, 3000 bar
- Stainless Steel single piece diaphragm
- ½" BSPP male pressure port
- High insulation resistance, making it suitable for intrinsically safe applications
- 1000ohm bridge resistance
- Cable gland or integral connector output versions available.

TYPE: BP70

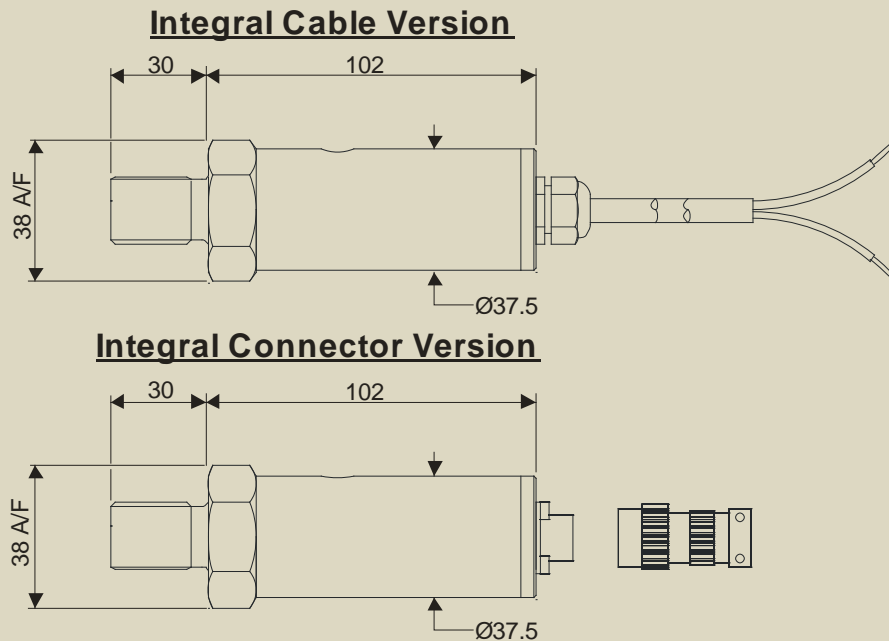
# High Range Pressure Transducer

## Specification

Pressure Range (FSO):	1000, 2000, 3000bar
Overpressure Range:	150% (110% for 3000bar version)
Burst Pressure:	5400bar
Output Sensitivity:	1000bar = 0.5mV/V 2000bar = 1mV/V 3000bar = 1.5mV/V
Zero Offset:	< ±0.01mV/V
Accuracy:	< ±0.25%FSO
Repeatability:	< ±0.1% FSO
Excitation Voltage:	10vdc recommended, 15vdc maximum
Bridge Resistance:	1000ohms
Operating Temperature Range:	-20°C to +70°C
Compensated Temperature Range:	+10°C to +70°C
Zero Temperature Coefficient:	< ±0.01%FSO/°C
Span Temperature Coefficient:	< ±0.01%FSO/°C
Environmental Protection Level:	IP67 (cable version), IP66 (connector version)
Connection Type:	Cable version 3m PUR 4-core Connector version MIL-26482
Pressure Port:	½" BSPP male
Options Available:	1000Mohm @ 1000vdc insulation resistance < ±0.005@FSO Temperature Coefficient Output standardised to < ±0.2%

## Mechanical Dimensions

All dimensions in millimeters



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

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