

## Description

The LCM Systems range of Pioden Transmitters has been widely used for many years.

The BP16UVW range of pressure transmitters combine the excellent performance of bonded foil strain gauge technology with a single piece stainless steel diaphragm construction, to provide an excellent price/performance ratio, suitable for use in many arduous measurement applications, with integral signal conditioning, providing an amplified voltage output.

The BP16UVW construction makes it ideal for a wide range of applications, including, hydraulic lifting, mobile hydraulic vehicles, portable test gear, air frame test rigs amongst others.

The most popular version of the BP16UVW is the integral cable version, which is supplied with a 2 metre PVC cable length. However, an integral connector version is also available, as are versions with different cable lengths or different cable types.

The BP16 family of products offers a variety of output formats (please refer to the BP16 and BP16EF datasheets).

LCM Systems can supply the BP16 on its own or integrated with any of the wide range of instrumentation available from LCM Systems

## Typical Applications

- On-board vehicle weighing
- Earthmoving vehicle hydraulic system protection/weighing
- Portable hydraulic test sets
- Air frame test rigs
- Hydraulic system feedback control

# BP16UVW Voltage Output Pressure Transmitter



## Features

- Ranges 100psig to 15,000psig
- **Stainless Steel Diaphragm (single piece construction)**
- ¼" BSPP female pressure port (supplied as standard with bonded seal and ¼" male pressure port adaptor)
- 3-wire 0-5V or 0-10V or 4-wire  $\pm 10V$  Output
- mV/V Wheatstone Bridge version available (refer to BP16 datasheet)
- Amplified current output version available (refer to BP16EF datasheet)
- Supplied with 2 metre PVC cable (versions available with integral connector or modified cable lengths/type)

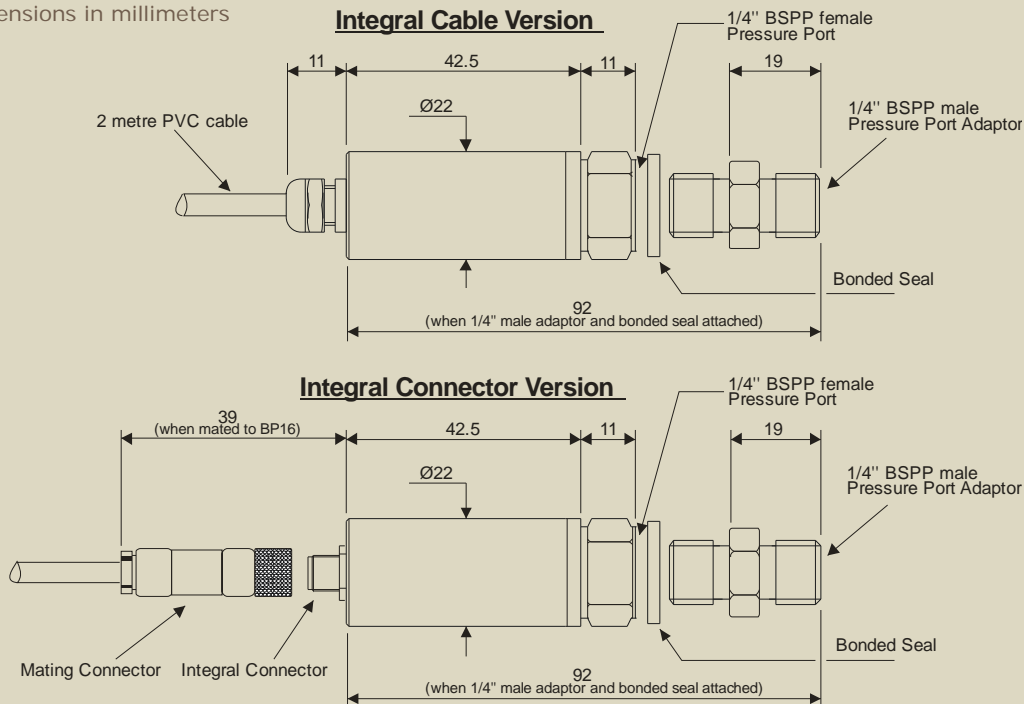
# Voltage Output Pressure Transmitter

## Specification

Pressure Range (FSO):	100, 150, 200, 500, 1000, 2000, 3000, 5000, 10000, 15000 psig
Overpressure Range:	200% with $< \pm 1\%$ calibration shift (125% for 15,000psi version)
Burst Pressure	400% (200% for 15,000psi version)
Output Signal:	<b>BP16U</b> - 3-wire 0volt (5V span, $\pm 0.1\%$ tolerance) <b>BP16V</b> - 3-wire 0-10 volt (10V span, $\pm 0.1\%$ tolerance) <b>BP16W</b> - 4-wire 0-10 volt (10V span, $\pm 0.1\%$ tolerance)
Zero Offset:	$< \pm 1\%$ FSO
Accuracy:	$< \pm 0.1\%$ FSO ( $\pm 0.7\%$ for 100-200psi versions)
Repeatability:	$< \pm 0.1\%$ FSO
	<b>BP16U</b> - 8.5Vdc to 28Vdc Supply Voltage: <b>BP16V</b> - 13Vdc to 30Vdc <b>BP16W</b> - $\pm 13$ Vdc to $\pm 15$ Vdc
Minimum Output Load:	<b>BP16U</b> - 5000ohms <b>BP16V</b> - 5000ohms <b>BP16W</b> - 5000ohms
Operating Temperature Range:	-20°C to +70°C
Compensated Temperature Range:	+10°C to +60°C
Zero Temperature Coefficient:	$< \pm 0.03\%$ FSO/°C ( $< \pm 0.01\%$ FSO/°C optional)
Span Temperature Coefficient:	$< \pm 0.03\%$ FSO/°C ( $< \pm 0.01\%$ FSO/°C optional)
Environmental Protection Level:	IP66
Connection Type:	2 metres 4-core screened PVC cable, or 4 pin Lumberg connector (c/w 5m PUR cable)
Options Available:	Consult Factory – Many Options and special versions available

## 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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TYPE: BP16UVW