



Features

- Ranges from 100psig to 15,000psig
- Stainless steel diaphragm (single piece construction)
- 1/4" BSPP female pressure port (supplied as standard with bonded seal and 1/4" male pressure port adaptor)
- O 2-wire or 3-wire 4-20mA output
- Amplified voltage output version (refer to BP16UVW data sheet)
- mV/V Wheatstone Bridge version available (refer to BP16 data sheet)

Typical Applications

- On-board vehicle weighing
- Earthmoving vehicle hydraulic system protection/weighing
- Portable hydraulic test sets

• Air frame test rigs

• Hydraulic system feedback control

BP16EF Current Output Pressure Transmitter

Description

The BP16EF range of pressure transmitters combine the excellent performance of bonded foil strain gauge technology with a single piece stainless steel diaphragm construction. They provide a cost effective price/performance ratio and are suitable for use in many arduous measurement applications, with integral signal conditioning providing an amplified current output.

The BP16EF construction makes it ideal for a wide range of applications, including hydraulic lifting, mobile hydraulic vehicles, portable test gear and air frame test rigs amongst others.

The most popular version of the BP16EF is the integral cable version, which is supplied with a 2 metre PVC cable. An integral connector version is also available, as are versions with different cable lengths or different cable types.

The BP16 family of products offer a variety of amplified output formats (see the BP16 and BP16UVW data sheets). We can supply the BP16EF on its own or integrated with any of the wide range of instrumentation available from LCM Systems.

Specification

Pressure Range (psig)	100, 150, 200, 500, 1000, 2000, 3000, 5000, 10,000, 15,000	
Over pressure range	150% with <±1% calibration shift (125% with 15,000psi version)	
Burst pressure	400% (200% for 15,000psi version)	
Output Signal	BP16E: 2 wire 4-20mA (16mA span, ±0.1% tolerance) BP16F: 3 wire 4-20mA (16mA span, ±0.1% tolerance)	
Zero offset	<±1% of full scale output (FSO)	
Accuracy	<±0.1% FSO (±0.7% for 100-200psi versions)	
Repeatability	<±0.1% FSO	
Supply voltage	BP16E: 7.5vdc to 28vdc	
	BP16F: 10vdc to 28vdc	
Maximum output load	BP16E: 800ohms at 28vdc	
	BP16F: 250ohms at 28vdc	
Operating temperature range	-20 to +70°C	
Compensated temperature range	+10 to +60°C	
Zero temperature coefficient	<±0.03% of FSO/°C (<±0.01% FSO/°C optional)	
Span temperature coefficient	<±0.03% of FSO/°C (<±0.01% FSO/°C optional)	
Environmental protection level	IP66	
Connection type	2 metre 4 core screened PUR cable or	
	4 pin Lumberg connector (c/w 5m PUR cable assembly)	
Wiring connections	BP16E: +supply Red (Pin 1) -supply Blue (Pin 2)	
	BP16F: +supply Red (Pin 1) -supply/-signal Blue (Pin 2)	
	+signal Green (Pin 3)	

Available Options

- Integral connector option
- O Modified cable length/type options
- TEDS option (when used with TR150 handheld display)
- Other special versions available



BP16EF Current Output Pressure Transmitter

Dimensions





All dimensions are in mm

Rating (psi)	Weight (g)	Resolution (psi)
100	50	0.5
150	50	0.5
200	50	1
500	50	0.5
1000	50	1
2000	50	2
3000	50	2
5000	50	5
10000	50	10
15000	50	10



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