
PDCR 130 SERIES

Amplified Output Pressure Transducers

- **Absolute, gauge or differential versions**
- **High accuracy**
 $\pm 0.1\%$ or $\pm 0.05\%$ BSL
- **Aircraft compatible excitation**
10-32 Vdc or ± 15 Vdc
- **Amplified output**
Up to 10V available
- **Input/output isolation**
PDCR 130/W & PDCR 130/WL Series
- **Good thermal stability**
 $\pm 1.5\%$ total error band -5° to $+175^\circ$ F
- **Integral zero and span adjustments**



This series of pressure transducers provides the user with a high level output signal for industrial, marine and aerospace applications. Gauge and absolute versions have all wetted parts manufactured from 316 stainless steel. Differential versions are suitable for wet/wet applications.

Military grade electronic components are used to ensure maximum integrity. Each unit is individually calibrated and temperature compensated before shipment.

Zero and span potentiometers are provided in the rear of the transducer body and user access is via two sealed blanking plugs.

Linearizing and temperature compensation is provided within the instrument, and the rationalized outputs ensure interchangeability without system recalibration.

During manufacture the transducers may be set to customer requirements for intermediate pressure ranges or other pressure units.

Natural Frequency (Mechanical)**PDCR 130/W and PDCR 135/W,****PDCR 130/WL and PDCR 135/WL**

10.5 kHz for 5 psi range increasing to 210 kHz for 500 psi range.

For more detailed information please refer to manufacturer.

Amplifier Bandwidth

-3dB at 2kHz nominal.

Acceleration Sensitivity**PDCR 130/W, PDCR 135/W****PDCR 130/WL and PDCR 135/WL**

0.044% F.S.O./g for 5 psi range decreasing to 0.0005% F.S.O./g for 500 psi range

Mechanical Shock

1000g 1ms half sine pulse in each of 3 mutually perpendicular axis will not effect calibration.

Vibration

Response less than 0.05% F.S./g at 30g peak 10Hz-2kHz, limited by .47 inches double amplitude (MIL-STD 810C Proc 514.2-2 Curve L).

Weight**PDCR 130/W and PDCR 135/W**

8.6 ozs. nominal.

PDCR 130/WL and PDCR 135/WL

10.0 ozs. nominal.

Electrical Connection**PDCR 130/W and PDCR 135/W**

3 feet integral shielded/vented cable supplied.

PDCR 130/WL and PDCR 135/WL

3 feet teflon shielded cable supplied.

Longer lengths available on request.

Connector Versions**PDCR 130/W/C, PDCR 135/W/C,****PDCR 130/WL/C and PDCR 135/WL/C**

6 pin Bayonet receptacle, PT1H-10-6P or equivalent (Hermetic stainless) to MIL-C-26482.

Mating electrical socket type PT06A-10-6S or equivalent available on request (P/N 163-009).

Pressure Connections**PDCR 130/WL, PDCR 135/WL,****PDCR 130/WL/C, and PDCR 135/WL/C**

Positive Port: 1/4" NPT male or 7/16 UNF male (MS33656-4)

Negative Port: 1/4" NPT male or 7/16 UNF male (MS33656-4)

PDCR 130/W, PDCR 135/W,**PDCR 130/W/C and PDCR 135/W/C**

Gauge, Absolute and Sealed Gauge: 1/4" NPT male or 7/16" UNF male (MS33656-4).

Other pressure connections available on request.

ORDERING INFORMATION

Please state the following:

- (1) Type number
- (2) Pressure range
- (3) Gauge, sealed gauge, absolute or differential
- (4) Maximum line pressure for /W versions
- (5) Temperature range
- (6) Pressure connection
- (7) Pressure media
- (8) Supply voltage
- (9) Output voltage
- (10) Mating electrical socket, P/N 163-009, (if required)

For non-standard requirements please specify in detail.

Continuing development sometimes necessitates specification changes without notice.

Your specification requirements

In addition to the standard specification detailed in this data sheet the PDCR 130 series can be manufactured to comply with specific requirements where system compatibility dictates that certain critical parameters be maintained.

Whether it is improved temperature performance over a wider temperature range, reduced non-linearity error or a revised mechanical configuration Druck has the engineering experience and capability, and would be pleased to consider your requirements.

Please contact our Sales Office for further information.

OPTIONS

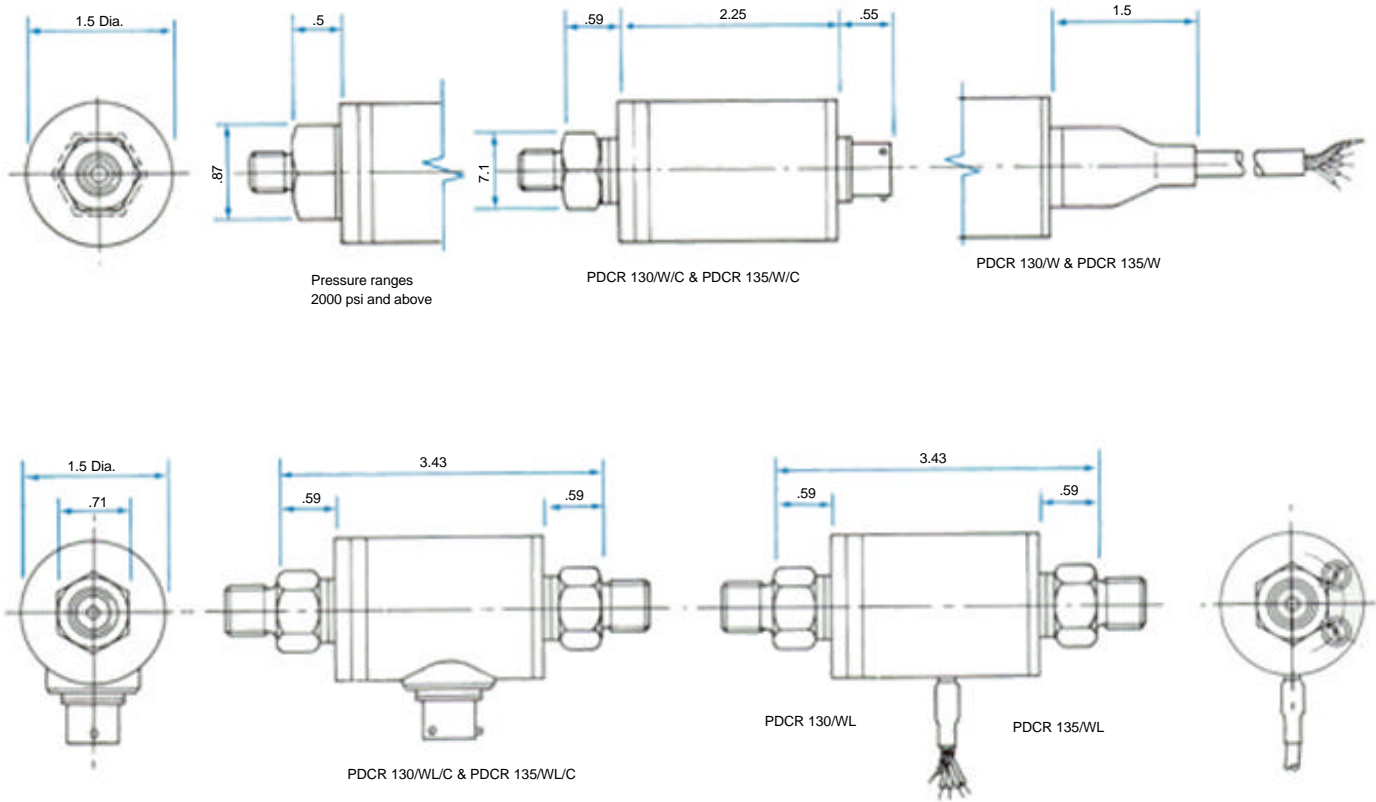
80% internal shunt calibration circuit

When specified, this provides a simulated positive 80% ± 5% increase in output signal (exact pressure equivalent for this signal is provided on calibration certificate). See electrical connection details on following page.

Please refer to manufacturer for other shunt calibration requirements.

Submersible transducer: contact manufacturer.
Flush mounting transducer: contact manufacturer.
Alternate electrical connectors available; contact manufacturer (see /WX).

INSTALLATION DRAWINGS Dimensions: inches



Electrical connection

FUNCTION	INTEGRAL CABLE VERSIONS		CONNECTOR VERSIONS	
	PDCR 130/W PDCR 135/W	PDCR 130/WL PDCR 135/WL	PDCR 130/W/C PDCR 135/W/C	PDCR 130/WX PDCR 135/WX
Supply Positive	Red	Red	A	1
Supply OV	White	Blue	D	4
Output Positive	Yellow	Yellow	B	2
Output Negative	Blue	Green	C	3
Optional 80% Shunt Cal (Operated by connecting the following terminals)	Orange/Black	-	E/F	5/6
Shield	Not connected	Connected to body	-	-

NOTE: 1) If integral cable length not specified, nominally 3 ft. Will be supplied.



Druck Incorporated
 4 Dunham Drive
 New Fairfield, CT 06812
 Tel: (203)-746-0400
 Fax: (203)-746-2494
 E-Mail: usa.sales@druck.com
 http:// www.druckinc.com

Representative

USPDCR130 - 10/93