



Budenberg

Made in Britain

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Model: DX

The all new DX digital gauge from Budenberg is designed to offer a truly simple, cost effective digital gauge to cover a wide range of applications from calibration laboratory to in-field use.

The DX is offered in a choice of standard ranges up to 700 bar in conformance with the EN-837 standard. Alternatively units can be factory programmed to offer the precise range and pressure units required for any particular application.

Based around a high specification Piezoresistive silicon sensor, the DX has an accuracy of 0.1% of the calibrated span which is fully temperature compensated across the range of -10 to 50 Deg C thereby allowing accurate readings to be taken over a wide range of ambient conditions.

The unit has a large five digit LCD display that incorporates a vertical bar graph to indicate the %age of the range being displayed. Menu keys allow the user to define or reconfigure the mode and characteristics of operation if required.

Dial Size

86 mm (3.4")

Mounting

Direct

Connection

1/4" NPT or BSP male connection in 316 stainless steel. An integral filter in the inlet prevents the ingress of solids whilst an in-built oil filled isolation seal protects the sensor.

Compatibility

All liquids and gases compatible with 316 Stainless Steel

Scale Ranges

Ranges from Vacuum to 700 bar can be provided in either standard ranges as defined in EN-837 or specially programmed to suit the requirement. (Please see overleaf).

Pressure Scales

psig, bar, mbar, kPa, Mpa, mmHg, "H₂O, "Hg, mmH₂O, mH₂O, Kg/cm². Two active pressure units can be pre-programmed at the factory or user selectable via the menu keys.

Accuracy

0.1% of calibrated span on all pressure scales and units

0.25% of vacuum range of -14.5 to 0 psig

All units may be safely used to measure vacuum, but only units with a calibrated range of 0-7 bar or less will be rated and tested for vacuum operation

Temperature

Operating & Compensated: -10 °C to +50 °C

Storage: -40 °C to +70 °C

DIGITAL TEST GAUGE



Over Scale Range

The DX will read up to 10% above the selected primary pressure range

Overpressure capability

-1 to +7 bar ranges then max overpressure is 21 bar

7 to 70 bar ranges then max overpressure is 140 bar

70 to 0-700 bar ranges then max overpressure is 1400 bar

Display

Large five full seven-segment LCD digits, digit height = 0.66"

Internal resolution always exceeds the displayed resolution

Display rate - 4 readings per second

Vertical Bar Chart to show %age of scale

Function Keys

Front Panel Keys for on/off

Menu entry and function set up facility

Backlight on/off

Unit can be set to display maximum, minimum or average values

Power

Battery: Two AA size (RS6) batteries

Battery life: (alkaline) > 600 hours typical (backlight off)

50 hours typical (backlight on)

Low battery Indicator: Battery icon displayed in LCD screen

Environmental

Sealed to IP66 (NEMA 4) standard

Case

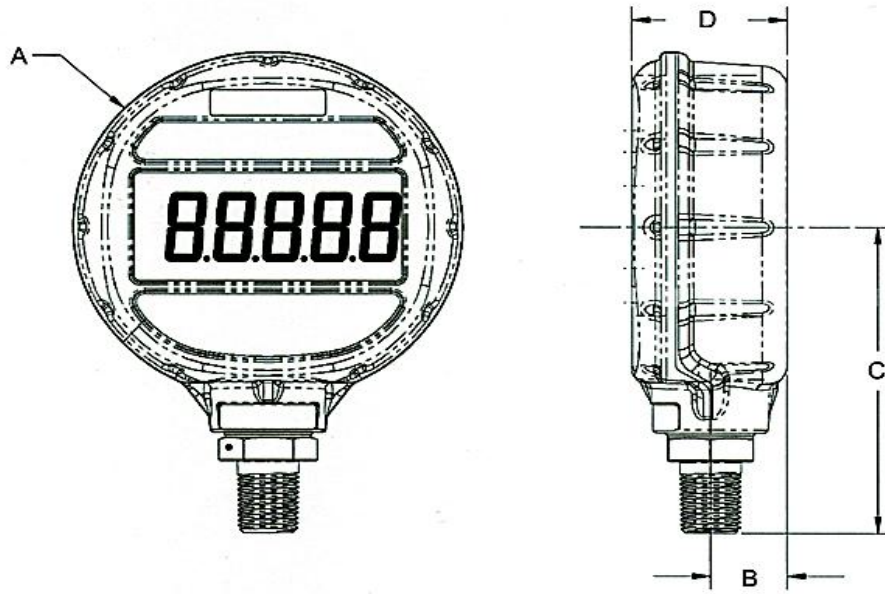
Very robust Polyester / Polycarbonate blend

Weight

245g (7.9 oz) including batteries

Dimensions

Model : DX



A	B	C	D	Weight
86mm	17mm	76mm	34mm	245g

Standard Ranges (bar)

-1 to 0	0 to 1	0 to 1.6	0 to 2.5	0 to 4	0 to 6	0 to 7	0 to 10	0 to 16
0 to 25	0 to 40	0 to 60	0 to 100	0 to 160	0 to 250	0 to 400	0 to 600	0 to 700

Any range up to 700 bar in a choice of single or dual pressure units can be supplied

Full Scale Ranges

bar	-0.9806	to	700
mbar	-980.6	to	19999
psig	-14.223	to	10153
kPa	-98.06	to	19999
MPa	0.2	to	70
Kg/cm	-1		713.8

mmH ₂ O	-10000	to	19999
mH ₂ O	-10	to	7138
mmHg	-735.5	to	19999
"H ₂ O	-394.4	to	19999
"Hg	-28.96	to	19999

Model, range, overscale, overpressure and resolution

Range (bar)	Overscale	Overpressure	Resolution	kPa	Bar	mBar
Vacuum to 7 bar	7.7 bar	21 bar	0.0001 bar	0.01	0.0001	0.1
8 to 70 bar	77 bar	140 bar	0.001 bar	0.01	0.0001	0.1
71 to 700 bar	770 bar	1400 bar	0.01 bar	0.01	0.0001	0.1

Options

Part No

Handpumps

Part No

Hard Carrying Case for DX	3009	80 psi, FNPT adaptor DPOV-1MBA	2784
Carrying Case for Calibration Kit	2888	80 psi, FNPT adaptor DPOV-2FBA	2799
		3000 psi HPOV 0000	1883
		3000 psi HPGV 0000	2919
		5000 psi, XHPGV 0000	2820
		300 psi + vac comb DLP	2907
		500 psi + vac comb DLP	2908
		80 psi + vac comb DPPV-0000	2936