

TEL-TRU MANUFACTURING COMPANY

SOLAR POWERED DIGITAL PROCESS PRESSURE GAUGES

Advanced Technology in Pressure Measurement

Tel-Tru Digital Pressure Gauges offer all the benefits of a high quality digital sensor, including a quick and easy-to-read output. Designed to operate even in low light conditions, the added solar power feature eliminates the task of changing batteries.



KEY BENEFITS

- IP65 Weatherproof Housing
- ASME B40.7 Conformance
- User Selector Functions
- 4-20 MA Output
- <10 Lux Rating</p>
- Large Display

SPECIFICATIONS

Case: 4-1/2" Black Glass Reinforced Thermo Plastic (PBTP) solid front construction, blow out back safety design, weatherproof IP65

Window: Acrylic

Sensor: Lux Capacitor™ (patent pending)

Wetted Materials: 316SS

Connection: 1/4" or 1/2" NPT Lower or

Lower Back Connected

Ranges: Vacuum to 1,000 psi (See Range

Tables)

Accuracy: 0.5% Full Scale ASME B40.7 AA

(.25% available consult factory)

Ambient Operating: -15/150°F (-25/65°C)

DISPLAY

Type: LCD

Lux Rating: <10 (only one foot-candle

Resolution: 1/4% first half, 1/2% second half

Digits: (4) 5/8" High **Update:** One second Two seconds (under 20 Lux)

USER SELECTOR FUNCTIONS

Left Units - Select from 4 units of measure PSI, kPa, KG/CM2 or Bar with

corresponding Vacuum

Center Zero - Adjustment ±4 increments

Right Avg. - Set reading in average of

1,2,4,8 seconds

NOTE: Over pressure rating = 2X FS Range



World-Class Instruments

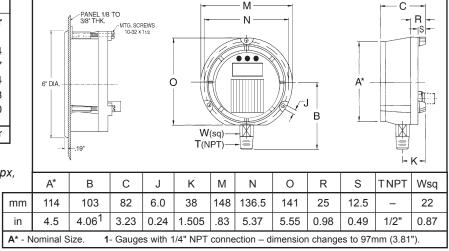
Since 1916 **Ordering Example:** Model DG1A solar process with safety case, 4-1/2" dial size, -30/0/60 psi range, 1/4" NPT lower connection, 316SS material.

 A	В	C	D	E F
D G 1 A	4 5	Z 3 A C	4 1 L S	AAA

A	В	С	D	E	F
MODEL	DIAL SIZE	PRESSURE Range	CONNECTION	OUTPUT	OPTIONS
DG1A Solar Process, Safety Case	45 = 4-1/2"	Z1AC = 30-0-15psi Z3AC = 30-0-60psi Z4AC = 30-0-100psi E5AG = 0-200psi F2AG = 0-400psi F8AG = 0-1000psi	21BS = 1/2" NPT, lower back 316SS 41BS = 1/4" NPT, lower back 316SS 21LS = 1/2" NPT, lower 316SS 41LS = 1/4" NPT, lower 316SS	AAA = None ABA = 4-20mA	A = Safety Glass (no selector accessory) B = Selector Lockout C = Flush Mounting Ring

Digital Ranges - Units ship with psi units of measure									
Vacuum	psi	kPa	KG/CM2	Bar					
30" HG*	15	100	1	1					
30" HG*	60	400	4	4					
30" HG*	100	700	7	7					
_	200	1400	14	14					
_	400	2800	28	28					
-	1000	7000	70	70					
*Metric Re	ads	-100 kPa	76 CM/HG	-1 Bar					

For pricing information, see our website at www.teltru.com/s-175-digital-pressure-gauges.aspx, or contact our factory.



Instructions

The Tel-Tru solar pressure gauge provides 1/2% full scale accuracy and operates continuously, even in low light conditions. There is no need to change a battery or push a button to read. Some special features, not available on any other digital gauge, are included to maximize the versatility and to customize for your application.

Three rotary DIP switches are located at the top of the gauge front panel and are accessed by removing the plugs on the lexan window or by removing the threaded ring and glass window. A small screwdriver is used to turn the switches to the desired position. The three switches are used to select the units of measure, zero set, and averaging. Unless otherwise requested the gauge is preset for PSI, zero shift, and no averaging. Replace the plug after the adjustment is made. This pressure gauge conforms with ASME 840.1 and 40.7 standards. A familiarity with these standards is recommended before selecting, installing and using pressure gauges.

Scale - Rotating the switch on the left hand side changes the units of measure. Rotate until the desired units appear on the right side of the display. For compound gauges the corresponding vacuum scale will appear on the left.

Vacuum icons on left

side of display

Zero - The center switch can be used to offset the reading, similar to an adjustable pointer on an analog gauge. Turning clockwise increases the reading by one scale increment, approximately .25% of full scale. Turning counterclockwise reduces the reading by one scale increment, -.25%. You can adjust up or down by four increments.

Averaging - The switch on the right is used to average the pressure readings, similar to damping the pointer in a liquid filled gauge to remove fluctuations due to vibration or line pressure pulsation. One turn clockwise averages the last two readings, two clockwise clicks averages the last four readings and three steps will average the last 8 readings.

Pressure Icons on right side of display

Max - The maximum calibration pressure, the top of the range, appears below the solar cells. Overrange capability is 200% of the max calibration pressure.

