

## PSP100 Solar Digital Pressure Gauge PSP150 Solar Digital Pressure Gauge with Transmitter

PSP100

### FEATURES

- IP65 Weatherproof housing
- ASME B40.7 Conformance
- Rugged Shock and Vibration Resistant
- User Selector Functions
- 4-20 mA Output
- < 10 Lux Rating
- Large Display

### SPECIFICATIONS

Case:	Black Glass Reinforced Thermo Plastic (PBTP). 4-1/2" (114 mm) diameter.
Window:	Acrylic
Connection:	Stainless Steel. Lower Connected, 1/4" NPT or 1/2" NPT.
Blow-Out Back:	Solid Front Construction with Blow Out Back, IP65 Weatherproof.
Sensor:	Gold Plated Ceramic, Kalrez® (chemically resistant) O-Ring
Wetted Material:	316SS
Stem Material:	Standard Cast Aluminum Stem and Seat
Ranges:	Vacuum to 1,000 psi.
Accuracy:	0.5% Full Scale ASME 40.7 AA*
Ambient Temperature:	-10° to 140°F (-10° to 60°C).
Display:	LCD with (4) 5/8" high digits.
Lux Rating:	< 10 Lux (only one foot-candle).
Resolution:	1/4% first half of scale.
Update:	One second, Two seconds (under 20 Lux).

*Specifications subject to change without notice.*



### USER SELECTABLE FUNCTIONS

**Left/Units:** Select from 4 units of measure PSI, kPa, KG/CM2 or Bar with corresponding Vacuum.

**Center/Zero:** Adjustment  $\pm 4$  increments.

**Right/Average:** Set reading in average of 1, 2, 4, 8 seconds.

### Palmer PSP Solar Digital Process Pressure Gauges

offer advanced technology in pressure measurement. Solar power enables the gauge to be care free when installed in various industrial applications, with no need to change batteries.

**The PSP150 solar gauge with transmitter** requires a current loop to provide the 4-20mA output. If loop power is removed the transmitter will stop sending 4-20mA and the gauge will draw power from it's solar cell. A gauge that will automatically power itself with solar cells when loop power is removed is a handy feature, especially in energy efficient applications.



## ORDERING GUIDE

### 1) Model Series

**PSP100** Solar Gauge, no output  
**PSP150** Solar Gauge, 4-20mA output

### 2) Upper Connection

**S** 316SS

### 3) Mount

**L** Stem Mount, Lower Connected  
**B** Stem Mount, Back Connected

### 4) Lower Connection

**H** 1/2" NPT  
**Q** 1/4" NPT

### 5) Range

#### Digital Ranges

Code	Range
<b>30"Hg</b>	30"Hg
<b>V15#</b>	Vac to 15 psi
<b>V60#</b>	Vac to 60 psi
<b>V100#</b>	Vac to 100 psi
<b>0200#</b>	0 to 200 psi
<b>0400#</b>	0 to 400 psi
<b>01000#</b>	0 to 1000 psi

### 6) Options

**G** Safety Glass  
 4-20 mA Output starts at zero psi to top of Range

#### Other Ranges

kPa	KG/CM2	Bar
<b>100</b>	<b>1</b>	<b>1</b>
<b>400</b>	<b>4</b>	<b>4</b>
<b>700</b>	<b>7</b>	<b>7</b>
<b>1400</b>	<b>14</b>	<b>14</b>
<b>2800</b>	<b>28</b>	<b>28</b>
<b>7000</b>	<b>70</b>	<b>70</b>
<b>-100 kPa</b>	<b>76 CM/HG</b>	<b>-1 Bar</b>

**Example of a typical pressure gauge part number configuration:**

**PSP100**

Model  
Series

**S**

Upper  
Connection

**L**

Mount

**H**

Lower  
Connection

**V60#**

Range

**C**

Options

**BESTOBELL**  
**AQUATRONIX**  
 SINCE/DEPUIS 1953

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