

**FLUKE®**

**Calibration**

# 2700G Series

Reference Pressure Gauge

## Users Manual

September 2012

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### **Introduction**

The 2700G Series Reference Pressure Gauges (the Product) are high-accuracy digital pressure test gauges. Accurate to 0.02 % FS, the Product can be used as a calibration reference, or in applications where high-accuracy pressure measurement is required.

The Product features user-configurable functions that include:

- Sampling rate
- Tare
- Damping
- Auto off
- Min Max

When the Product is configured, you can lock its settings and use password protection to prevent configuration changes. See the “Supervisory Mode” section.

### **Standard Equipment**

The Product ships with:

- Protective Cover (installed)
- Three AA Alkaline Batteries (installed)
- Safety Information (printed)
- Report of Calibration
- Manuals CD-ROM with translated Users Manuals
- USB Cable
- USB Power Adapter
- NPT to ¼ BSP Male Adapter
- NPT to M20 x 1.5 Male Adapter

### **Safety Information**

A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

#### **⚠⚠ Warning**

To prevent injury, only assemble and operate high-pressure systems if you know the correct safety procedures. High-pressure liquids and gases are hazardous and the energy from them can be released without warning.

To prevent possible electrical shock, fire, or personal injury:

- Read all safety Information before you use the Product.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use and disable the Product if it is damaged.
- Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage can damage the Product.

- Replace the batteries when the low battery indicator shows to prevent incorrect measurements.
- The battery door must be closed and locked before you operate the Product.

**⚠ Caution**

To prevent possible damage to Product or to equipment under test:

- The display reads “OL” when the pressure source is above the Product range limit. The pressure source must immediately be removed.
- Do not apply more than the maximum torque specified. Maximum torque specified is 20 Nm = 15 ft-lb.

**Special Conditions for Safe Use**

**Misuse**

If the Product is exposed to overpressure or sudden physical shock (such as being dropped) examine it for damage that can cause a safety issue. If necessary, send the Product for examination to Fluke. Refer to the How to Contact Fluke Calibration section.

**⚠ Warning**

To prevent possible fire, or personal injury:

- Do not use the Product with flammable substances.
- The Product is intended for installation only in locations with protection against the entry of solid unwanted objects or water that can compromise safety.

Symbols

Symbols used on the Product and in this manual are in Table 1.

Table 1. Symbols

| Symbol                                                                              | Meaning                                            | Symbol                                                                              | Meaning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Risk of danger. Important information. See manual. |    | Conforms to European Union directives.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | Hazardous voltage. Risk of electrical shock.       |  | Conforms to relevant North American Safety Standards.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | Conforms to relevant Australian standards.         |  | This product complies with the WEEE Directive (2002/96/EC) marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information. |

Display and Buttons

The Display and Buttons are shown in Figure 1. The Buttons are in Table 2.

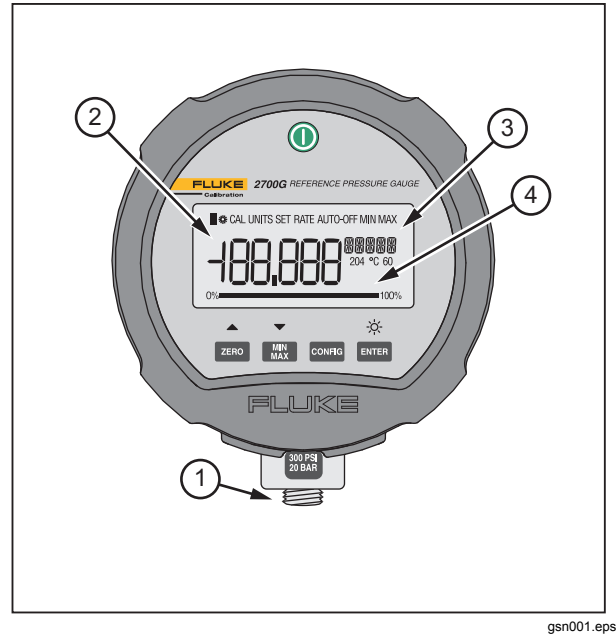


Figure 1. The Product

Table 2. Display and Buttons

| Item | Function                                                                                                                                                                                                                                                                                                                                                                                              |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Push to turn on the Product. Push again to turn off the Product.                                                                                                                                                                                                                                                                                                                                      |
|      | Zeros the display. In Configure Mode, push the button to move forward through the menus.                                                                                                                                                                                                                                                                                                              |
|      | <p>MIN MAX records minimum and maximum pressure values and saves them to memory. Push  to show maximum (MAX) indication. Push again to show minimum (MIN) indication. After 2 seconds, the gauge goes back to live operation.</p> <p>To clear the MIN MAX memory values, push and hold  for 2 seconds until CLR is shown.</p> <p>In Configure Mode, push  (▼) to move backward through the menus.</p> |

Table 2. Display and Buttons (cont.)

| Item                                                                               | Function                                                                                                                                      |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|   | Push to go to setup and configuration menus.                                                                                                  |
|  | Push to make a selection. When the Product is not in Configuration mode, push to turn on the backlight. Push again to turn off the backlight. |
| ①                                                                                  | NPT Connector                                                                                                                                 |
| ②                                                                                  | Pressure Display                                                                                                                              |
| ③                                                                                  | Engineering Units                                                                                                                             |
| ④                                                                                  | Bargraph                                                                                                                                      |

**Operation**

The subsequent sections tell you how to operate the Product. Push ① to turn on the Product.

The analog bar graph at the bottom of the display shows the applied-pressure level relative to the full range of the gauge.

*Note*

*If you record a Tare value, the pressure shown is not the actual pressure applied.*

**How to Setup the Product**

Before you use the product, it is necessary to configure it for your application. Push  to go to the Setup menu.

Each time  is pushed, the display goes to the subsequent function. Push ▲ or ▼ to change the parameter value. When a parameter is set, push  to exit the configuration menu or  to move to the next parameter.

**Engineering Units**

The Product's default engineering unit shows psi. To change this, push ▲ and ▼ to move through the standard engineering units plus one custom unit/scale. When the necessary unit shows, push  or . Pressure now shows in the chosen engineering units. See the Specifications section for a list of available

engineering units. See the Supervisory Mode section for instructions to set up custom units.

#### **Set Auto Off**

Auto Off can be set in 1 minute increments from 1 to 30 minutes or you can turn off the function for continuous Product operation. The Product is configured for 30 minutes. Push ▲ and ▼ to set the necessary interval. The “off” position is at the low end of the selections, less than 1 minute.

#### **Show Battery Voltage**

Actual battery voltage and a percent-of-life bargraph show the battery charge. No adjustments are made in this parameter.

#### **Display Actual Temperature**

The Product is temperature compensated. This parameter shows the temperature measured by the internal sensor. Push ▲ or ▼ to show degrees F or C.

#### **Set Damping**

Selections are “on” ▲ and “off” ▼. Damping smooths readings from pulsating pressure sources.

#### **Set Sample Rate**

This function finds how many times pressure is sampled and the display is updated. Selections are 0.5, 1, 3, and 10 samples/second. Note that 10/second gives the fastest response time.

#### **Set Tare**

Use this function to set a constant offset value that is then subtracted from the measured pressure. For example, if a tare is set at 30 psi, and the measured pressure is 37 psi, 7 psi is shown.

A pressure of 27 psi is shown as -3 psi.

Push ▲ and ▼ to set the tare value. The value is in relation to the engineering units and resolution selected for display. Tare value can be set to the maximum range of the gauge.

For safety, the bar graph always shows the actual pressure in relation to the full range of the gauge regardless of the tare position. This is done to make sure that with a “0” reading pressure is being applied to the gauge.

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### Function Lock

When set, access to each of the settable parameters above can be turned “off” to prevent unauthorized configuration changes. This is done with password protection in Supervisory Mode. Push **ENTER** to access Supervisory Mode or **CONFIG** to go back to normal operation.

### Supervisory Mode

If necessary, each user-configurable parameter can be edited when you receive the Product. Some parameters are locked and must be unlocked to configure them. Use Supervisory mode to do this.

When you are in the Configure menu, and **FUnC LOCK** is shown, it means that there are locked parameters.

To disable function lock:

1. Push **▼** **ENTER**. **0 PWRD** is then shown.
2. The password “101” is required to unlock Supervisory mode. Push **▲** to put in the password entry. Hold **▲** or **▼** down to move faster through the selections by a factor of 10. When you stop the counter, push **▲** and **▼** again to move forward or backward by a factor of 1. The password is factory set and cannot be changed.
3. Push **ENTER**.

From this point each parameter can be locked or unlocked. Push **▲** and **▼** to select **UnLOC** or **LOC** for

each parameter. To move to the subsequent parameter, push **CONFIG**.

You can access, lock, or unlock these functions:

- Zero function (enable/disable)
- Set pressure units (enable/disable)
- Auto shutdown adjustment (enable/disable)
- Damping settings (enable/disable)
- Sample rate setting (enable/disable)
- Tare setting (enable/disable)
- Custom engineering units (set scale factor)

When a function is locked, it cannot be accessed or changed from its current condition until you go to Supervisory Mode and unlock it.

### Available Pressure Ranges

Available pressure ranges are shown in the Specifications section.

### **How to Set a Custom Engineering Unit or Scale**

The last menu selection in Supervisory Mode is **SET FACTR**. You can set a multiplier factor from 0.001 to 100 to make a custom scale. The set factor is multiplied by the psi measured and the result is shown.

Example: 40 psi is the equivalent of 1000 lbs of product in a tank. It is necessary to show the product weight with a 100 psi gauge. If you set a factor of 25, 40 psi pressure shows as 1000 (40 x 25). The engineering unit shown is **Cust** (custom).

### **Battery Life**

Battery life is approximately 75 hours of operation with the backlight off. When the battery voltage is low, the low-battery icon (🔋) shows on the top left of the display. To replace the batteries, see the How to Change the Batteries section.

### **Maintenance**

#### **How to Clean the Product**

Clean the Product with a soft cloth dampened with water or water and weak soap.

#### **⚠ Caution**

**To prevent possible damage to the Product, do not use solvents or abrasive cleansers.**

#### **⚠ Caution**

**For safe operation and maintenance of the product:**

- **Repair the Product before use if the battery leaks.**
- **Remove batteries to prevent battery leakage and damage to the Product if it is not used for an extended period.**
- **Be sure that the battery polarity is correct to prevent battery leakage.**
- **Have an approved technician repair the Product.**

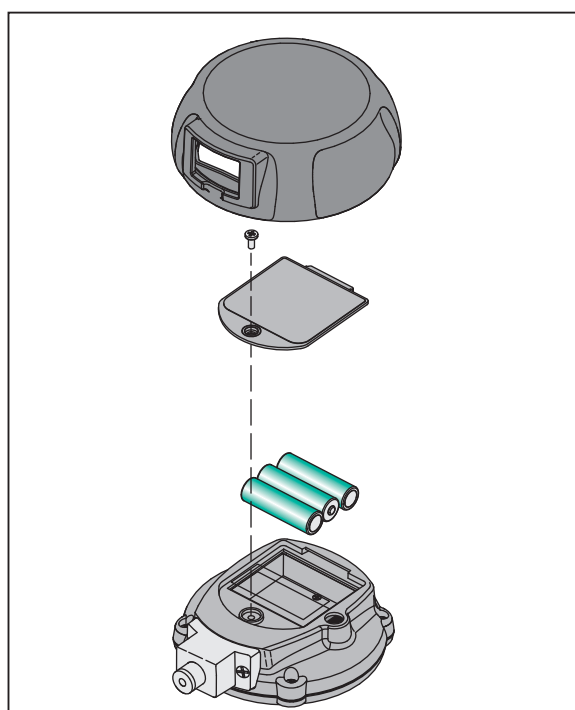
### **How to Change the Batteries**

**⚠⚠ Warning**

**To prevent possible electrical shock, fire, or personal injury, have an approved technician repair the Product.**

To change the batteries, see Figure 2:

1. Pull off the Product cover.
2. Use a Phillips screwdriver to loosen the captive screw on the battery door.
3. Remove the battery door.
4. Replace the three AA batteries.
5. Install the battery door again.
6. Tighten the captive screw on the battery door.
7. Return the Product to its Holster.



gsn002.eps

**Figure 2. Change the Batteries**

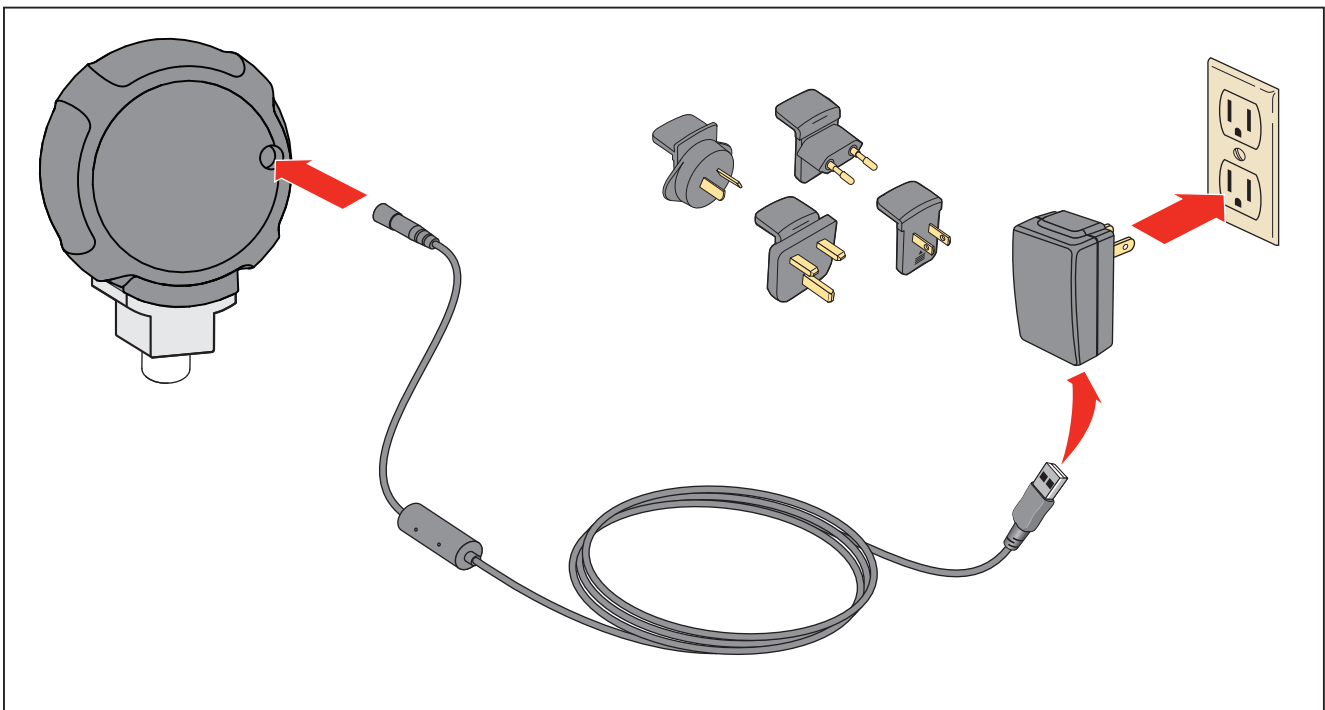
## **Accessories**

### **USB Interface Cable**

The Product includes an USB interface cable. The input jack is on the back of the Product. You can use serial communication to configure and calibrate the Product and move measurement data from the Product to a PC. For specifications on the interface, see the Specifications section.

### **Power Module**

The Product includes a USB power module. See Figure 3.



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**Figure 3. USB Power Module and Universal Connectors**

### **Serial Interface Instructions**

The subsequent sections tell you how to set up the Product for serial communication.

#### **Initiating Communication**

Terminal communication can be setup with terminal communication Software on a PC. The terminal must be set as follows:

- Bits per second: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None
- Local echo on

#### **List of Commands**

Use the subsequent list of commands to communicate with the Gauge:

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| *CLS       | Clears the error queue                                                                                       |
| FAULT?     | Returns an error code from the error queue                                                                   |
| *IDN?      | Identification query. Returns the manufacturer, model number, and firmware revision level of the Calibrator. |
| TARE       | Tares the offset pressure of the reading on the calibrator                                                   |
| TARE?      | Returns the current tare value                                                                               |
| PRES_UNIT? | Returns the pressure unit for the upper display                                                              |
| PRES_UNIT  | Sets the pressure unit for the display                                                                       |
| ZERO_MEAS  | Zeros pressure of the calibrator                                                                             |
| ZERO_MEAS? | Returns the current zero offset value                                                                        |
| MINMAX_RST | Resets the minimum and maximum recorded values                                                               |

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|            |                                                       |
|------------|-------------------------------------------------------|
| MIN?       | Returns the minimum recorded value                    |
| MAX?       | Returns the maximum recorded value                    |
| TEMP?      | Returns temperature in the chosen units               |
| CAL_STORE  | Stores calibration data.                              |
| CUST_MULT? | Sets the multiplier for the custom unit type          |
| STREAM_OFF | Turns off streaming data                              |
| STREAM_ON  | Turns on streaming data                               |
| VAL?       | Returns the measured pressure value in selected units |
| TEMP_UNIT  | Used to set temperature unit                          |
| TEMP_UNIT? | Returns temperature unit                              |

### **Parameter Units**

The subsequent list of units is used with the Product:

|          |                                              |
|----------|----------------------------------------------|
| psi      | Pressure in pounds per square inch           |
| bar      | Pressure in bars                             |
| mBar     | Pressure in millibars                        |
| kg/cm2   | Pressure in kilograms per centimeter squared |
| inH2O4C  | Pressure in inches of water at 4 °C          |
| inH2O20C | Pressure in inches of water at 20 °C         |
| inH2O60F | Pressure in inches of water at 60 °F         |
| mH2O4C   | Pressure in meters of water at 4 °C          |
| mH2O20C  | Pressure in meters of water at 20 °C         |
| cmH2O4C  | Pressure in centimeters of water at 4 °C     |
| cmH2O0C  | Pressure in centimeters of water at 20 °C    |
| ftH2O4C  | Pressure in feet of water at 4 °C            |
| ftH2O20C | Pressure in feet of water at 20 °C           |

**Reference Pressure Gauge**  
**Error Codes**

|          |                                            |                                            |                                                                     |
|----------|--------------------------------------------|--------------------------------------------|---------------------------------------------------------------------|
| ftH2O60F | Pressure in feet of water at 60 °F         | <b>Error Codes</b>                         |                                                                     |
| iNHg0C   | Pressure in inches of mercury at 0 °C      | The gauge uses the subsequent error codes: |                                                                     |
| mmHg0C   | Pressure in millimeters of mercury at 0 °C | 101                                        | A non-numeric entry was received where it should be a numeric entry |
| kpal     | Pressure in kilopascals                    | 102                                        | Too many significant digits entered                                 |
| Far      | Temperature in Fahrenheit                  | 103                                        | Invalid units or parameter value received                           |
| Cel      | Temperature in Celsius                     | 105                                        | Entry is above the upper limit of the allowable range               |
| mSW      | Pressure in meters of SeaWater             | 106                                        | Entry is below the lower limit of the allowable range               |
| ftSW     | Pressure in feet of SeaWater               |                                            |                                                                     |
| MPA      | Pressure in MegaPascal                     | 108                                        | A required command parameter was missing                            |
| torr     | Pressure in Torr (mmHG0C)                  | 109                                        | An invalid pressure unit was received                               |
|          |                                            | 117                                        | An unknown command was received                                     |
|          |                                            | 120                                        | The serial input buffer overflowed                                  |
|          |                                            | 121                                        | Too many entries in the command line                                |
|          |                                            | 122                                        | Pressure module not connected                                       |

### **Units Conversion**

See Table 3 for units and their conversion factors.

**Table 3. Units Conversion**

| <b>Unit Name</b> | <b>Conversion Factor (from kPa)</b> | <b>Conversion Factor (to kPa)</b> |
|------------------|-------------------------------------|-----------------------------------|
| psi              | 0.14503773773                       | 6.894759                          |
| bar              | 0.01                                | 100                               |
| MPa              | 0.001                               | 1000                              |
| kgf/cm2          | 0.010197162130                      | 98.06652                          |
| inH2O @ 4 °C     | 4.014742                            | 0.249082                          |
| inH2O @ 20 °C    | 4.021845                            | 0.248642                          |
| inH2O @ 60 °F    | 4.0185886                           | 0.248844                          |
| ftH2O @ 4 °C     | 0.33456183                          | 2.988984                          |
| ftH2O @ 20 °C    | 0.33515375                          | 2.983705                          |
| ftH2O @ 60 °F    | 0.33488238                          | 2.986123                          |

**Table 3. Units Conversion (cont.)**

| <b>Unit Name</b>           | <b>Conversion Factor (from kPa)</b> | <b>Conversion Factor (to kPa)</b> |
|----------------------------|-------------------------------------|-----------------------------------|
| cmH <sub>2</sub> O @ 4 °C  | 10.19744                            | 0.09806383                        |
| cmH <sub>2</sub> O @ 20 °C | 10.21549                            | 0.09789056                        |
| mH <sub>2</sub> O @ 4 °C   | 0.1019744                           | 9.806383                          |
| mH <sub>2</sub> O @ 20 °C  | 0.1021549                           | 9.789056                          |
| kPa                        | 1                                   | 1                                 |
| mbar                       | 10                                  | 0.1                               |
| inHg @ 0 °C                | 0.2952998                           | 3.386387                          |
| mmHg @ 0 °C                | 7.500618                            | 0.133322                          |
| Torr                       | 7.500618                            | 0.133322                          |
| ftSW @ 0 °C                | 0.325408                            | 3.073062                          |
| mSW                        | 0.09918444                          | 10.08222                          |

**Specifications**

**Accuracy**

|                                                                                |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Positive Pressure .....                                                        | ±0.02 % FS                                        |
| Vacuum .....                                                                   | ±0.05 % FS                                        |
| Temperature Compensation .....                                                 | 18 °C to 28 °C (65 °F to 82 °F) to rated accuracy |
| Note: For temperatures from 0 °C to 18 °C and 28 °C to 50 °C, add .003 % FS/°C |                                                   |

**Media Compatibility**

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 15, 30 psi .....              | any clean dry non-corrosive gas                                                                                     |
| 100, 300, 500, 1000 psi ..... | any liquids or gases compatible with 316 stainless steel                                                            |
| Above 1000 psi .....          | any non-flammable, non-toxic, non-explosive,<br>non-oxidizing liquid or gas compatible with 316<br>stainless steel. |

**Environmental**

|                             |                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature ..... | 0 °C to 50 °C (32 °F to 122 °F)                                                                                                                                               |
| Storage .....               | -20 °C to +70 °C (-4 °F to +158 °F)                                                                                                                                           |
| Humidity .....              | 10 % to 90 % RH Non-condensing                                                                                                                                                |
| Altitude.....               | 2000 meters (6561.68 ft.)                                                                                                                                                     |
| Pollution Degree .....      | 2                                                                                                                                                                             |
| Agency Approvals.....       | CE,  ,  |

**Reference Pressure Gauge  
Specifications**

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**Mechanical Specifications**

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Dimensions .....   | (11.4 x 12.7) cm, depth = 3.7 cm<br>(4.5 x 5) in, depth = 1.5 in<br>(Without Protective Cover) |
| Pressure           |                                                                                                |
| Connection .....   | ¼ in NPT Male                                                                                  |
| Housing .....      | Cast ZNAl                                                                                      |
| Display .....      | 5-1/2 Digits, 16.53 mm (0.65 in) high<br>20-Segment bar graph, 0 to 100 %                      |
| Power              |                                                                                                |
| Battery .....      | three size AA alkaline batteries                                                               |
| Battery Life ..... | 75 hours typical without backlight                                                             |

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#### Available Pressure Ranges

| Model Number         | 2030-BG100K | 2030-BG200K | 2030-BG700K | 2030-BG2M | 2030-BG3.5M | 2030-BG7M | 2030-G20M | 2030-G35M | 2030-G70M |
|----------------------|-------------|-------------|-------------|-----------|-------------|-----------|-----------|-----------|-----------|
| Pressure Range (psi) | 15          | 30          | 100         | 300       | 500         | 1000      | 3000      | 5000      | 10000     |
| Pressure Range (MPa) | 0.1         | 0.2         | 0.7         | 2         | 3.5         | 7         | 20        | 35        | 70        |
| Vacuum Range (psi)   | -15         | -15         | -12         | -12       | -12         | -12       | 0         | 0         | 0         |
| Vacuum Range (kPa)   | -100        | -100        | -80         | -80       | -80         | -80       | 0         | 0         | 0         |
| Burst Pressure (psi) | 45          | 90          | 1000        | 2000      | 2000        | 10000     | 10000     | 10000     | 15000     |
| Burst Pressure (MPa) | 0.3         | 0.6         | 7           | 14        | 14          | 70        | 70        | 70        | 100       |
| Proof Pressure (psi) | 30          | 60          | 200         | 600       | 1000        | 2000      | 6000      | 8000      | 13000     |
| Proof Pressure (MPa) | 0.2         | 0.4         | 1.4         | 4         | 7           | 14        | 40        | 55        | 90        |