

# DIGITAL PRESSURE GAUGE MODEL 3800



## INSTRUCTION MANUAL

FILE NO. 3800:440-1  
9/00

# DIGITAL PRESSURE GAUGE RECALIBRATION

- 1.) Remove the rear cover of the gauge to expose two potentiometers located at the top of the circuit board. The potentiometers are labeled "zero" & "span".
- 2.) For your convenience, an option is provided to by-pass the shut-off feature of the gauge and provide continuous power during the re-calibration. Simply install the jumper (provided) on the JP6 terminals inside the unit.
- 3.) To adjust zero, first vent the gauge to atmosphere. Then adjust the "zero" potentiometer (the left most potentiometer at the top of the circuit board) until the gauge displays "0".
- 4.) To set the span, first apply pressure equal to the maximum range of the gauge (Model numbers and maximum ranges are listed below). Then adjust the "span" potentiometer (the right most potentiometer at the top of the circuit board) until the gauge display and the calibration standard agree.
- 5.) Remove the jumper across JP6 and re-install the rear cover.

Notes: a.) The standard being used should be at least 4 times more accurate than the MINIGAUGE.  
b.) Care should be taken when working near the circuit board to prevent electrical damage.

<u>Model:</u>	<u>Pressure Ranges &amp; Resolution:</u>
3800-GI0050PSI	50.00 PSIG
3800-GI0100PSI	100.00 PSIG
3800-GI0500PSI	500.0 PSIG
3800-GI1000PSI	1000.0 PSIG
3800-GI1500PSI	1500.0 PSIG
3800-GI3000PSI	3000 PSIG
3800-GI6000PSI	6000 PSIG
3800-GI10000PSI	10000 PSIG
3800-GI0003BAR	3.500 Bars
3800-GI0007BAR	7.000 Bars
3800-GI0035BAR	35.00 Bars
3800-GI0070BAR	70.00 Bars
3800-GI0105BAR	105.00 Bars
3800-GI0210BAR	210.0 Bars
3800-GI0410BAR	410.0 Bars
3800-GI0720BAR	720.0 Bars
3800-GI0003KG	3.500 kg/cm <sup>2</sup>
3800-GI0007KG	7.000 kg/cm <sup>2</sup>
3800-GI0035KG	35.00 kg/cm <sup>2</sup>
3800-GI0070KG	70.00 kg/cm <sup>2</sup>
3800-GI0105KG	105.00 kg/cm <sup>2</sup>
3800-GI0210KG	210.0 kg/cm <sup>2</sup>
3800-GI0420KG	420.0 kg/cm <sup>2</sup>
3800-GI0730KG	730.0 kg/cm <sup>2</sup>

# SPECIFICATIONS

**ACCURACY:**  $\pm 1\%$  of Full Scale @  $70^{\circ}\text{F} \pm 2^{\circ}\text{F}$ .

Temperature effect:  $\pm 0.1\%$  of full scale per  $^{\circ}\text{F}$ .

**DISPLAY:** 4.5 digit LCD (0.4" character height), Low battery indicator.

**POWER:** One 9 volt alkaline battery (included).

Automatic timeout after approximately 40 seconds to conserve battery life.

An optional 9 volt lithium battery is available for extended battery life.

**ENCLOSURE:** Custom molded ABS plastic housing.

**ENGINEERING UNITS:** Available in either PSIG, Bar or  $\text{kg}/\text{cm}^2$ .

**OVER-PRESSURE LIMITS:** Twice the full scale range.

**WEIGHT:** 7 ounces

## CERTIFICATIONS:

NIST Certificate optional. CE and Intrinsically Safe/CSA pending.

**FIELD CALIBRATION:** Zero and span adjustment potentiometers.

## MEDIA COMPATIBILITY:

Isolated sensor for processes compatible with 17-4 PH stainless steel.

**PROCESS CONNECTION:**  $\frac{1}{4}$ " male NPT

**TEMPERATURE:** Storage:  $-4^{\circ}\text{F}$  to  $140^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ )

Operating:  $32^{\circ}\text{F}$  to  $122^{\circ}\text{F}$  ( $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ )

## DIMENSIONS

