

SABRE P MODEL PD603 PROCESS METER

Instruction Manual



Sabre Series

- 0-20, 4-20 mA, 0-5, 1-5, 0-10, ± 10 V Inputs
- Type 4X, NEMA 4X, IP65 Front
- Shallow Depth Case 3.6" Behind Panel
- 4 Digit Display, 0.56" (14 mm) High, Red LEDs
- Easy Front Panel Programming
- Scale without a Signal Source
- Calibrate with a Signal Source
- Maximum/Minimum Display
- Universal Power Supply 85-265 VAC
- 12-36 VDC/12-24 VAC Power Option
- 24 VDC @ 200 mA Transmitter Supply Option

Order from: **C A Briggs Company**
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com



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INTRODUCTION

The Sabre P model PD603 is an easy to use process input meter. It accepts 0-20 mA, 4-20 mA, 0-5, 1-5, or ± 10 V input signals. The four front panel buttons make the setup and programming an easy task.

The isolated 24 VDC transmitter power (optional) can be used to power the input transmitter or other devices.

ORDERING INFORMATION

| 85-265 VAC* Model | 12-36 VDC* Model | Description |
|----------------------|---------------------|---|
| PD603-6R0-0 | PD603-7R0-0 | Process Meter |
| PD603-6R0-1 | | Process Meter with 24 V transmitter supply |

*All models may be powered from AC or DC, see **Specifications** for details.

NEMA 4 & NEMA 4X Enclosures

| Model | # of Meters | Description | Mounting |
|---------|----------------|-----------------------------------|---------------|
| PDA2500 | 1 - 6 | Plastic NEMA 4X Enclosure | Through Door |
| PDA2600 | 1 - 6 | Stainless Steel NEMA 4X Enclosure | Through Door |
| PDA2700 | 1 - 6 | Steel NEMA 4 Enclosure | Through Door |
| PDA2801 | 1 | Plastic NEMA 4X Enclosure | Through Cover |

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SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C.

General

| | |
|--|--|
| DISPLAY | 0.56" (14 mm) high, red LED Four digits (-1999 to 9999), automatic lead zero blanking. |
| DISPLAY UPDATE RATE | 5/second |
| OVERRANGE | Display flashes 9999 |
| UNDERRANGE | Display flashes - 1999 |
| PROGRAMMING METHODS | Four front panel buttons |
| RECALIBRATION | All ranges are calibrated at the factory. Recalibration is recommended at least every 12 months. |
| MAX/MIN DISPLAY | Max/min readings reached by the process are stored until reset by the user or until power to the meter is turned off. |
| PASSWORD | Programmable password restricts modification of programmed settings. |
| NON-VOLATILE MEMORY | All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost. |
| POWER OPTIONS | 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W max or 12-36 VDC, 12-24 VAC, 6 W max |
| FUSE | Required fuse: UL Recognized, 5 A max, slow blow Up to 6 meters may share one 5 A fuse |
| ISOLATED TRANSMITTER POWER SUPPLY | P+, P- terminals: 24 VDC \pm 10% @ 200 mA max |
| NORMAL MODE REJECTION | 64 dB at 50/60 Hz |
| ISOLATION | 4 kV input-to-power line 500 V input-to-24 V supply |
| OVERVOLTAGE CATEGORY | Installation Overvoltage Category II: Local level with smaller transient overvoltages than Installation Overvoltage Category III. |
| ENVIRONMENTAL | Operating temperature range: 0 to 65°C Storage temperature range: -40 to 85°C Relative humidity: 0 to 90% non-condensing |
| CONNECTIONS | Removable screw terminal blocks accept 12 to 22 AWG wire, RJ11 for factory use only. |

| | |
|---------------------------|---|
| ENCLOSURE | 1/8 DIN, high impact plastic, UL 94V-0, color: gray |
| MOUNTING | 1/8 DIN panel cutout required. Two panel mounting bracket assemblies provided |
| TIGHTENING TORQUE | Screw terminal connectors: 5 lb-in (0.56 Nm) |
| OVERALL DIMENSIONS | 2.45" x 4.68" x 4.19" (62 mm x 119 mm x 106 mm) (H x W x D) |
| WEIGHT | 8.5 oz (241 g) |
| WARRANTY | 1 year parts & labor |
| EXTENDED WARRANTY | 1 or 2 years, refer to the Price List for details. |

Process Input

| INPUTS | Field selectable: 0-20, 4-20 mA, 0-5, 1-5, 0-10 V, or ± 10 V | | | | | | |
|--------------------------|--|-------------|--------------------------------|---------|---------|------------|--------|
| ACCURACY | $\pm 0.05\%$ FS ± 1 count | | | | | | |
| FUNCTION | Linear | | | | | | |
| TEMPERATURE DRIFT | 50 PPM/ $^{\circ}$ C from 0 to 65 $^{\circ}$ C ambient | | | | | | |
| DECIMAL POINT | Up to three decimal places: <i>d.ddd, dd.dd, dddd.d, or dddd</i> | | | | | | |
| CALIBRATION RANGE | An <i>Error</i> message will appear if input 1 and input 2 signals are too close together. <table border="0"> <thead> <tr> <th>Input Range</th> <th>Minimum Span Input 1 & Input 2</th> </tr> </thead> <tbody> <tr> <td>4-20 mA</td> <td>0.40 mA</td> </tr> <tr> <td>± 10 V</td> <td>0.20 V</td> </tr> </tbody> </table> | Input Range | Minimum Span Input 1 & Input 2 | 4-20 mA | 0.40 mA | ± 10 V | 0.20 V |
| Input Range | Minimum Span Input 1 & Input 2 | | | | | | |
| 4-20 mA | 0.40 mA | | | | | | |
| ± 10 V | 0.20 V | | | | | | |
| INPUT IMPEDANCE | Voltage ranges: greater than 1 M Ω Current ranges: 50 - 100 Ω (depending on resettable fuse impedance) | | | | | | |
| INPUT OVERLOAD | Current input protected by resettable fuse. Fuse resets automatically after fault is removed. | | | | | | |

COMPLIANCE INFORMATION**Safety**

| | |
|------------------------------|---|
| UL LISTED | USA and Canada UL 508 Industrial Control Equipment |
| UL FILE NUMBER | E160849 |
| FRONT PANEL | UL Type 4X, NEMA 4X, IP65; panel gasket provided |
| LOW VOLTAGE DIRECTIVE | EN 61010-1:2010 Safety requirements for measurement, control, and laboratory use |

Electromagnetic Compatibility

| | |
|--------------------------------|--|
| EMISSIONS | EN 55011:2009+AI:2010 Group 1 Class A ISM emissions requirements |
| Radiated Emissions | Class A |
| AC Mains Conducted Emissions | Class A |
| IMMUNITY | EN 61326-1:2013 Measurement, control, and laboratory equipment EN 61000-6-2:2005 EMC heavy industrial generic immunity standard |
| RFI - Amplitude Modulated | 80 -1000 MHz 10 V/m 80% AM (1 kHz) 1.4 - 2.0 GHz 3 V/m 80% AM (1 kHz) 2.0 - 2.7 GHz 1 V/m 80% AM (1 kHz) |
| Electrical Fast Transients | ±2kV AC mains, ±1kV other |
| Electrostatic Discharge | ±4kV contact, ±8kV air |
| RFI - Conducted | 10V, 0.15-80 MHz, 1kHz 80% AM |
| AC Surge | ±2kV Common, ±1kV Differential |
| Surge | 1KV (CM) |
| Power-Frequency Magnetic Field | 30 A/m 70%V for 0.5 period |
| Voltage Dips | 40%V for 5 & 50 periods 70%V for 25 periods |
| Voltage Interruptions | <5%V for 250 periods |

Note:

Testing was conducted on PD603 meters installed through the covers of grounded metal enclosures with cable shields grounded at the point of entry representing installations designed to optimize EMC performance.

Declaration of Conformity available at www.predig.com

SAFETY INFORMATION

CAUTION: Read complete instructions prior to installation and operation of the meter.



WARNING: Risk of electric shock.

**WARNING**

Hazardous voltages exist within enclosure. Installation and service should be performed only by trained service personnel.

INSTALLATION

There is no need to remove the meter from its case to complete the installation, wiring, and setup of the meter.

Unpacking

Remove the meter from box. Inspect the packaging and contents for damage. Report damages, if any, to the carrier.

If any part is missing or the meter malfunctions, please contact your supplier or the factory for assistance.

Panel Mounting

- Prepare a standard 1/8 DIN panel cutout – 3.622" x 1.772" (92 mm x 45 mm). Refer to *Mounting Dimensions*, page 28 for more details.
- Clearance: allow at least 4" (102 mm) behind the panel for wiring.
- Panel thickness: 0.04" - 0.25" (1.0 mm - 6.4 mm).
Recommended minimum panel thickness to maintain Type 4X rating: 0.06" (1.5 mm) steel panel, 0.16" (4.1 mm) plastic panel.
- Remove the two mounting brackets provided with the meter (back-off the two screws so that there is ¼" (6.4 mm) or less through the bracket. Slide the bracket toward the front of the case and remove).
- Insert meter into the panel cutout.
- Install mounting brackets and tighten the screws against the panel. To achieve a proper seal, tighten the mounting bracket screws evenly until meter is snug to the panel along its short side. **DO NOT OVER TIGHTEN**, as the rear of the panel may be damaged.

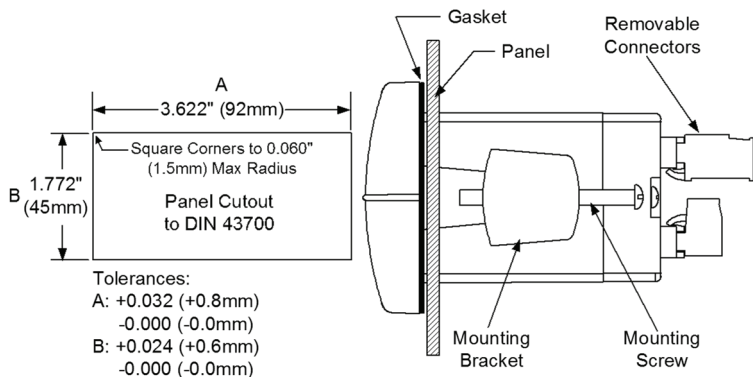


Figure 1. Panel Cutout and Mounting

Connections

All connections are made to removable screw terminal connectors located at the rear of the meter.



Use copper wire with 60°C or 60/75°C insulation for all line voltage connections. Observe all safety regulations. Electrical wiring should be performed in accordance with all applicable national, state, and local codes to prevent damage to the meter and ensure personnel safety.

Connector Labeling

The connectors label, affixed to the meter, shows the location of the connectors available with requested configuration.

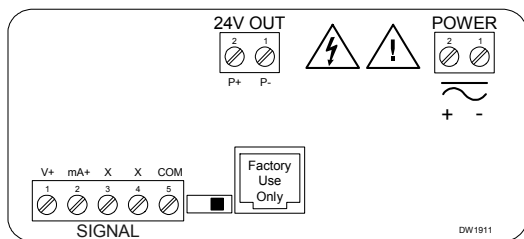


Figure 2. Connector Labeling - Meter with 24 V Supply

Power Connections

Power connections are made to a two-terminal connector labeled POWER on Figure 2. The meter will operate regardless of DC polarity connection. The + and - symbols are only a suggested wiring convention.

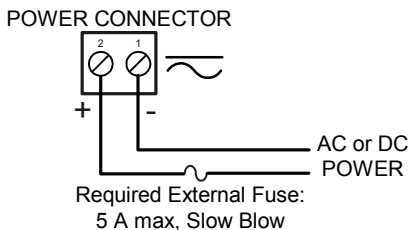


Figure 3. Power Connections

Signal Connections

Signal connections are made to a five-terminal connector labeled SIGNAL on Figure 2. The COM (common) terminal is the return for all types of input signals.

Current and Voltage Connections

The following figures show examples for current and voltage connections. There are no switches or jumpers to set up for current and voltage inputs. Setup and programming is performed through the front panel buttons.

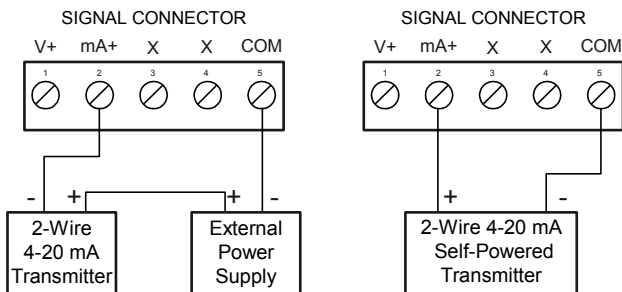


Figure 4. Transmitter Powered by Ext. Supply or Self-Powered

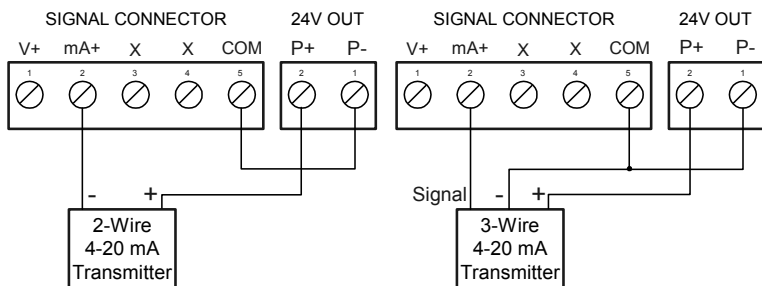


Figure 5. Transmitters Powered by Internal Supply (Optional)

The current input is protected against current overload by a resettable fuse. The display may or may not show a fault condition depending on the nature of the overload.

The fuse limits the current to a safe level when it detects a fault condition, and automatically resets itself when the fault condition is removed.

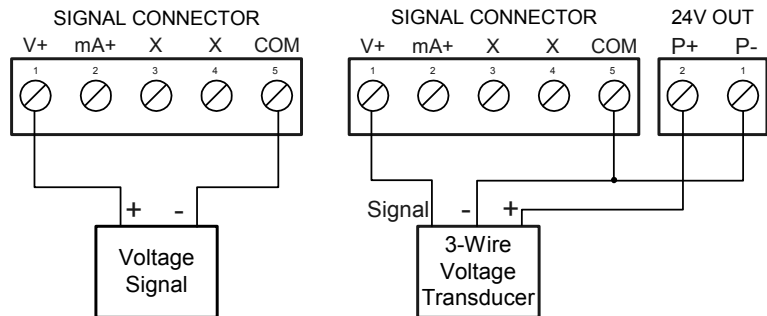


Figure 6. Voltage Input Connections

The meter is capable of accepting any voltage from -10 VDC to +10 VDC.

SETUP AND PROGRAMMING

- There is **no need to recalibrate** the meter when first received from the factory.
- The meter is **factory calibrated** prior to shipment, for all input types, in milliamps and volts. The calibration equipment is certified to NIST standards.

Overview





There are no jumpers involved in the setup process of the meter. The switch, located between the SIGNAL and the RJ11 connectors is not used with the PD603 model. Setup and programming is done through the front panel buttons.

After power and signal connections have been completed and verified, apply power to the meter.

For
Quick User Interface Reference Guide
go to page 30

Front Panel Buttons and Status LED Indicators



| Button Symbol | Description |
|---|-------------------|
|  | Menu |
|  | Right arrow/Reset |
|  | Up arrow/Max |
|  | Enter/Ack |

- Press the **Menu** button to enter or exit the Programming Mode at any time.
- Press the **Right** arrow button to move to the next digit during digit programming.
- Press the **Up** arrow button to scroll through the menus, decimal point, or to increment the value of a digit.
- Press the **Enter/Ack** button to access a menu or to accept a setting.

Display Functions and Messages

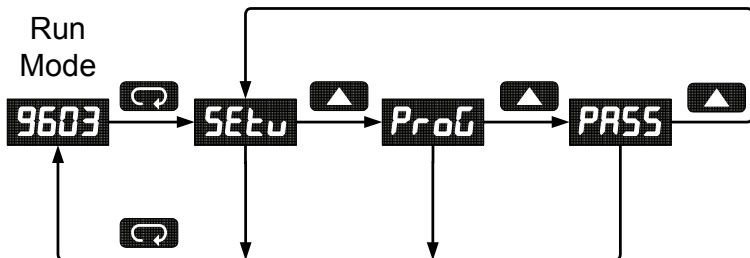
The meter displays various functions and messages during setup/programming and operation. The following table shows the displayed functions and messages with their action/setting description.

| Display | Parameter | Action/Setting |
|-------------------------------------|-------------------------|---|
| SE <u>tu</u> | <i>Setup</i> | Enter <i>Setup</i> menu |
| <u>in</u> P <u>t</u> | <i>Input</i> | Enter <i>Input</i> menu |
| 4-20 | 4-20 mA | Set meter for 4-20 mA input |
| 0-10 | 0-10 VDC | Set meter for ± 10 VDC input |
| d <u>ec</u> . <u>P</u> | <i>Decimal point</i> | Set decimal point for process inputs |
| <u>Pr</u> o <u>G</u> | <i>Program</i> | Enter the <i>Program</i> menu |
| <u>Sc</u> AL | <i>Scale</i> | Enter the <i>Scale</i> menu |
| <u>C</u> AL | <i>Calibrate</i> | Enter the <i>Calibrate</i> menu |
| <u>in</u> P <u>1</u> | <i>Input 1</i> | Calibrate input 1 signal or program input 1 value |
| <u>d</u> <u>1</u> <u>5</u> <u>1</u> | <i>Display 1</i> | Program display 1 value |
| <u>in</u> P <u>2</u> | <i>Input 2</i> | Calibrate input 2 signal or program input 2 value |
| <u>d</u> <u>1</u> <u>5</u> <u>2</u> | <i>Display 2</i> | Program display 2 value |
| <u>Er</u> r | <i>Error</i> | Error, calibration not successful, check signal |
| <u>PR</u> SS | <i>Password</i> | Enter the <i>Password</i> menu |
| <u>un</u> L <u>C</u> | <i>Unlocked</i> | Program password to lock meter |
| <u>L</u> o <u>C</u> d | <i>Locked</i> | Enter password to unlock meter |
| 9999 - 1999 | <i>Flashing display</i> | Overrange condition Underrange condition |

Main Menu

The main menu consists of the following functions: *Setup*, *Program*, and *Password*.

- Press **Menu** button to enter Programming Mode then press **Up** arrow button to scroll main menu.



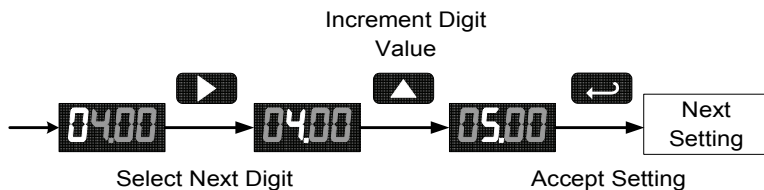
- Press **Menu**, at any time, to exit and return to Run Mode. Changes made to settings prior to pressing **Enter/Ack** are not saved.
- Changes to the settings are saved to memory only after pressing **Enter/Ack**.
- The display moves to the next menu every time a setting is accepted by pressing **Enter/Ack**.

Setting Numeric Values

The numeric values are set using the **Right** and **Up** arrow buttons. Press **Right** arrow to select next digit and **Up** arrow to increment digit value.

The digit being changed is displayed brighter than the rest.

Press the **Enter/Ack** button, at any time, to accept a setting or **Menu** button to exit without saving changes.



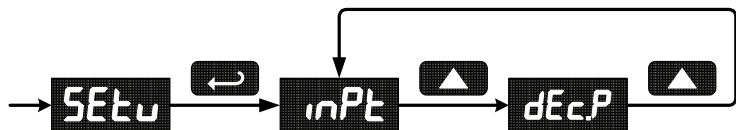
The decimal point is set using the **Up** arrow button in the *Setup-decimal point* menu.

Setting Up the Meter (SEtU)

The *Setup* menu is used to select:

1. Input signal the meter will accept
2. Decimal point position

Press the **Enter/Ack** button to access any menu or press **Up** arrow button to scroll through choices. Press the **Menu** button to exit at any time.

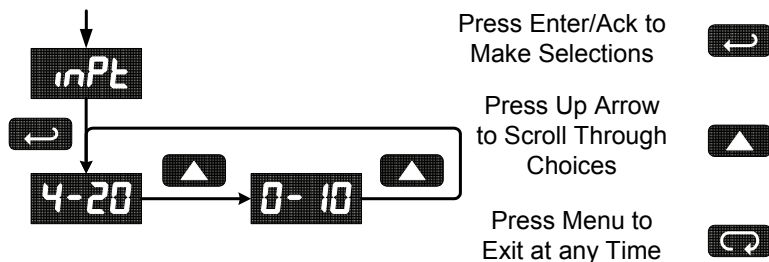


Setting the Input Signal (inPt)

Enter the *Input* menu to set up the meter to display current (4-20) or voltage (0-10) inputs.

The voltage input is capable of accepting any signal from -10 to +10 VDC. Select voltage input to accept 0-5, 1-5, 0-10, or ± 10 VDC signals.

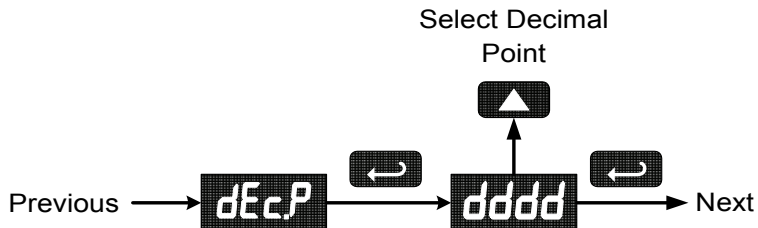
The current input is capable of accepting any signal from -20 to 20 mA. Select current input to accept 0-20 or 4-20 mA signals.



Setting the Decimal Point (*dEcP*)

Decimal point may be set with up to three decimal places or with no decimal point at all.

Pressing the **Up** arrow moves the decimal point one place to the right until no decimal point is displayed, then it moves to the leftmost position.



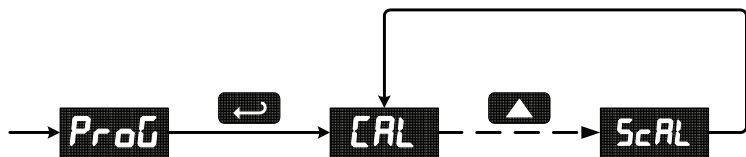
Programming the Meter (*Prog*)

It is **very important** to read the following information, before proceeding to program the meter:

- There is **no need to recalibrate** the meter when first received from the factory.
- The meter is **factory calibrated** prior to shipment, for all input types, in milliamps and volts. The calibration equipment is certified to NIST standards.
- Use the *Scale* menu to scale process inputs (e.g. 4-20 mA). A calibrated signal source is not needed to scale the meter.

The *Program* menu contains the *Calibrate* and the *Scale* menus.

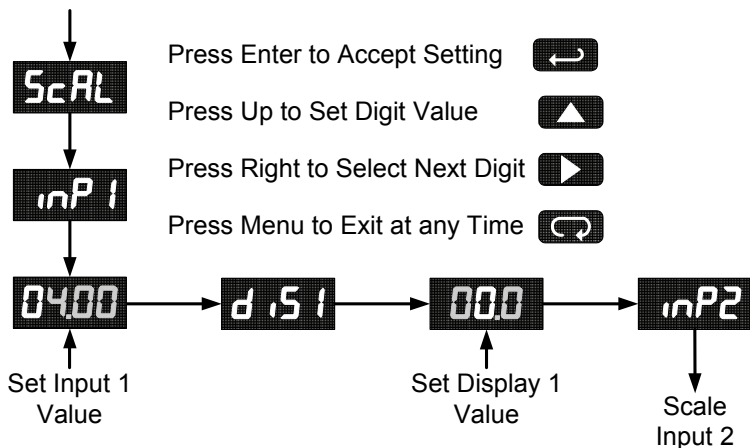
Process inputs may be calibrated or scaled to any display within the range of the meter.



Scaling the Meter (5cAL)

The process inputs (4-20 mA and ± 10 VDC) can be scaled to display the process in engineering units.

A signal source is not needed to scale the meter; simply program the inputs and corresponding display values.



For instructions on how to program numeric values see *Setting Numeric Values*, page 17.

Error Message (Err)

An error message indicates that the calibration or scaling process was not successful.

After the error message is displayed, the meter reverts to input 1, allowing the appropriate input signals to be applied.

The error message might be caused by any of the following conditions:

1. Input signal is not connected to the proper terminals or it is connected backwards.
2. Wrong signal selection in *Setup* menu.
3. Minimum input span requirements not maintained.
4. Input 1 signal inadvertently applied to calibrate input 2.

Minimum Input Span

The minimum input span is the minimum difference between input 1 and input 2 signals required to complete the calibration or scaling of the meter.

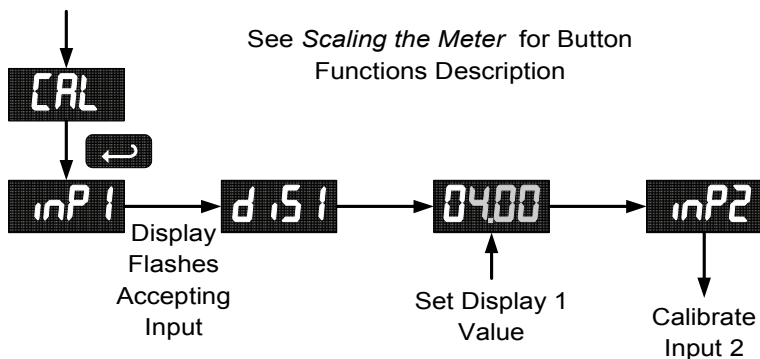
| Input range | Input 1 & input 2 span |
|--------------|------------------------|
| 4-20 mA | 0.40 mA |
| ± 10 VDC | 0.20 VDC |

Calibrating the Meter (CAL)

To scale the meter without a signal source refer to *Scaling the Meter (ScAL)*, page 21.

The meter can be calibrated to display the process in engineering units by applying the appropriate input signal and following the calibration procedure.

The use of a calibrated signal source is strongly recommended to calibrate the meter.



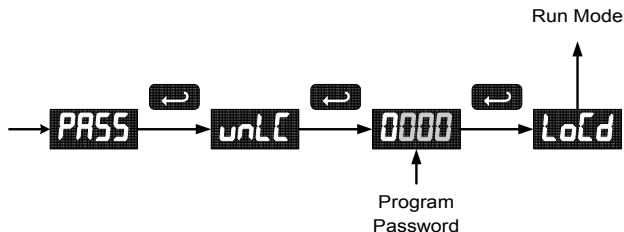
Setting Up the Password (PASS)

The *Password* menu is used to program a four-digit password to prevent unauthorized changes to the programmed parameter settings.

Locking the Meter

Enter the *Password* menu and program a four-digit password.

For instructions on how to program numeric values see *Setting Numeric Values*, page 17.

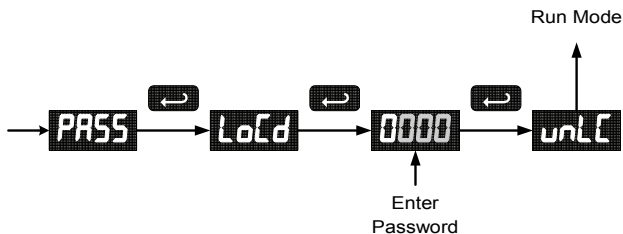


Record the password for future reference. If appropriate, it may be recorded in the space provided.

| | |
|----------------|-------------|
| Model: | |
| Serial Number: | |
| Password: | __ __ __ __ |

Unlocking the Meter

If the meter is password protected, the correct password must be entered in order to make changes to the parameter settings.



Entering the correct four-digit number sets the password to 0000, disabling the protection.

Changes to the programmed parameter settings are allowed only with the password set to 0000.

If the password entered is incorrect, the meter displays *LoCd* (Locked) for about two seconds, then it returns to Run Mode. To try again, press **Enter/Ack** while the *Locked* message is displayed.

Forgot the Password?





The password may be disabled by the following procedure:

1. Note display reading prior to pressing the Menu button. Ignore decimal point and sign.
2. Access the *Password* menu, add 2 to the noted reading and enter that number as the password (e.g. display reading = -1.23, password = 0125).

OPERATION

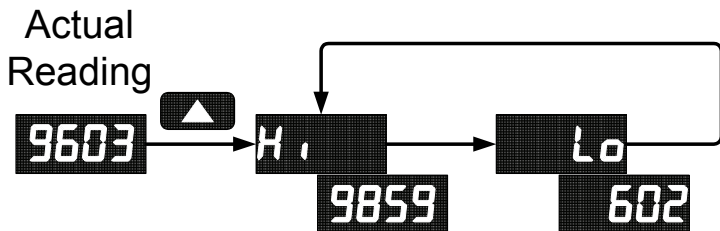
For process inputs, the meter is capable of accepting positive and negative signals and displaying these signals in engineering units from -1999 to 9999 (e.g. a signal from -10 to +10 VDC could be displayed as -5000 to 5000).

Front Panel Buttons Operation

| Button Symbol | Description |
|---|--|
|  | Press to enter or exit Programming Mode, view settings, or exit Max/Min readings |
|  | Press to reset Max/Min readings |
|  | Press to display Max/Min readings alternately |
|  | Press to display Max/Min reading indefinitely while displaying Max/Min |

Maximum/Minimum Readings

The main function of the front panel buttons during operation is to display the maximum and minimum readings reached by the process.



Press **Up** to Display and
Toggle Max/Min



Press **Enter** to Hold Max/Min



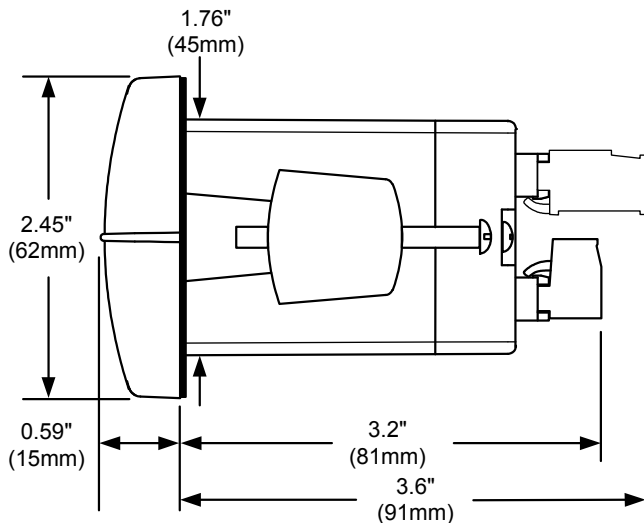
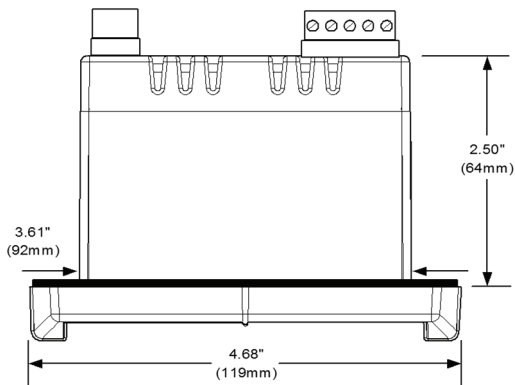
Press **Right** to Reset Max/Min



Press **Menu** to Exit Max/Min



1. Press **Up** arrow/**Max** button to display maximum reading since the last reset/power-up.
2. Press **Up** arrow/**Max** again to display the minimum reading since the last reset/power-up.
3. Press **Enter/Ack** to hold Max/Min display reading, the meter will continue to track new Max/Min readings.
4. If **Enter/Ack** is not pressed, the Max/Min display reading will time out after ten seconds and the meter will return to display the actual reading.
5. Press **Right** arrow/**Reset** button to reset Max/Min while reading is being displayed. Max/Min display readings are reset to actual reading.

MOUNTING DIMENSIONS**Figure 7. Meter Dimensions - Side View****Figure 8. Case Dimensions - Top View**

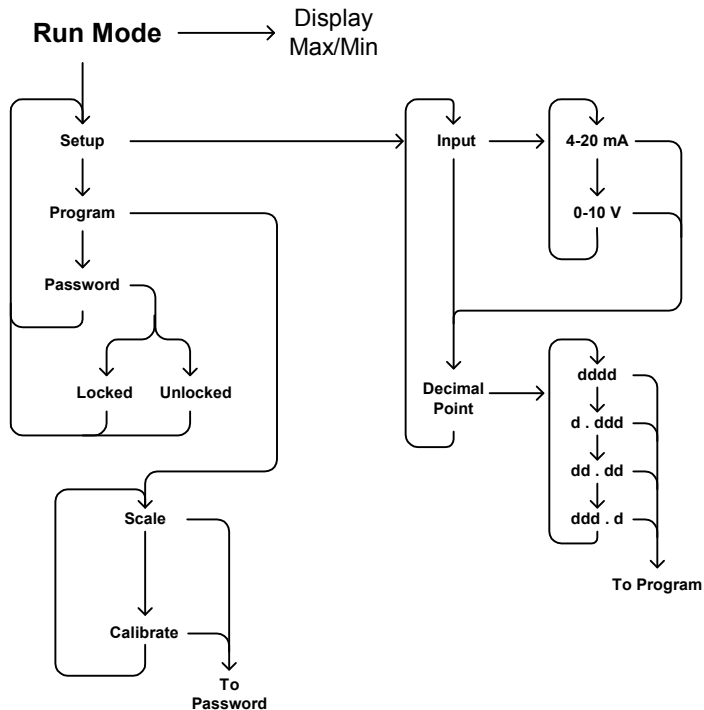
TROUBLESHOOTING

The rugged design and the user-friendly interface of the meter should make it unusual for the installer or operator to refer to this section of the manual.

Troubleshooting Tips

| Symptom | Check/Action |
|---|---|
| No display at all | Check power at power connector |
| Not able to change setup or programming, $L o c k$ is displayed | Meter is locked, enter correct four-digit password to unlock |
| Meter displays error message during calibration ($E r r$) | Check: <ol style="list-style-type: none"> Signal connections Input selected in <i>Setup</i> menu Minimum input span requirements |
| Meter displays <ul style="list-style-type: none"> • 9999 • -1999 | Check: <ol style="list-style-type: none"> Input selected in <i>Setup</i> menu Corresponding signal at Signal connector |
| Display alternates between <ol style="list-style-type: none"> $H i$ and a number $L o$ and a number | Press Menu to exit Max/Min display readings. |
| If the display locks up or the meter does not respond at all | Cycle the power to restart the microprocessor. |
| Other symptoms not described above | Call Technical Support for assistance. |

QUICK USER INTERFACE REFERENCE GUIDE



EU DECLARATION OF CONFORMITY

Issued in accordance with ISO/IEC 17050-1:2004.

We,

**Precision Digital Corporation
233 South Street
Hopkinton, MA 01748 USA**

as the manufacturer, declare under our sole responsibility that the product(s),

Model PD603 Sabre Process Meter

to which this declaration relates, is in conformity with the European Union Directives shown below:

| | |
|-------------------|------------------------------|
| 2014/35/EU | Low Voltage Directive |
| 2014/30/EU | EMC Directive |
| 2011/65/EU | RoHS Directive |

This conformity is based on compliance with the application of harmonized or applicable technical standards and, when applicable or required, a European Union notified body certification.

Standards:

EN 55011:1998
EN 61000-6-2:2001
EN 61010-1:1995
EN 61326:2006

The standards EN 55011:1998, EN 61000-6-2:2001, EN 61010-1:1995, and EN 61326:2006 are no longer harmonized. The requirements of these standards have been checked against the harmonized standards EN 55011:2009+A1:2010, EN 61000-6-2:2005, EN 61010-1:2010, and EN 61326:2013 and there were no major technical changes affecting the latest technical knowledge for the products listed above.

Product Markings: 

Signed for and on behalf of Precision Digital Corporation:



Name: Jeffrey Peters
Company: Precision Digital Corporation
Title: President
Date: 04/20/2016



Document No: DoC PD603 {042016}

How to Contact Precision Digital

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