# Sabre P PD603 Low-Cost Process Meter

**Instruction Manual** 







- 1/8 DIN Digital Panel Meter with NEMA 4X, IP65 Front
- 0-20, 4-20 mA, 0-5, 1-5, 0-10, ±10 V Inputs
- 4-Digit Display, 0.56" (14.2 mm)
- Shallow Depth Case Extends Only 3.6" (91 mm) Behind Panel
- Isolated 24 VDC @ 200 mA Transmitter Power Supply Option
- No Assembly Required
- Operating Temperature Range: 0 to 65°C (32 to 150°F)
- UL & C-UL Listed. E160849; 508 Industrial Control Equipment
- Input Power Options: 85-265 VAC or 12-36 VDC
- Max/Min Display
- Easy Front Panel Programming; No Jumpers, Switches or Solder Pads
- 1-Year Warranty



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



**WARNING**: Risk of electric shock or personal injury.



 Cancer and Reproductive Harm www.P65Warnings.ca.gov. For California Proposition 65 details please visit our website <a href="https://www.predig.com">www.predig.com</a>

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#### INTRODUCTION

The Sabre P model PD603 is an easy to use 1/8 DIN digital panel meter that has all the important features customers want in a process input meter. These features include field selectable 0-20 mA, 4-20 mA, 0-5 V, 1-5 V, or ±10 V inputs, NEMA 4X front panel, UL and C-UL Listing for 508 Industrial Control Equipment, and optional 24 VDC power supply for the transmitter. The meter is easily programmed and scaled with its four front panel buttons and simple menu structure.

#### 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

<sup>\*\*</sup> All models may be powered from AC or DC, see **Specifications** for details.

Note: Factory orders for Sabre products require a five (5) piece minimum of any combination of Sabre (PD603 & PD743) products. For instance, an order of three (3) PD603-6R0-0 and two (2) PD743-7R0-0 qualifies. For information on individual unit sales, please contact your local distributor.

#### **Accessories**

	Model	Description	
	PD9501	Multi-Function Calibrator	
	PD9502	Low-Cost Signal Generator	
	PDA1024-01	24 VDC Transmitter Power Supply	
PDA 1024-01	FDA 1024-01	for DIN Rail	
	PDA6420	Split Core AC Current Transducer	
	FDA0420	30/60/120 AAC: 4-20 mA	

#### **NEMA 4 & NEMA 4X Enclosures**

Model	# of Meters	Description	Mounting
PDA2300	1 – 10	Plastic NEMA 4X Enclosure	Through Door
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
PDA3400	1 - 2	Plastic NEMA 4X Enclosure	Behind Clear Window

<sup>\*</sup> Quick Shipment Program product, typically shipped within 2 working days.

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# **SPECIFICATIONS**

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

Genera	
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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 ± 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 (32 to 150°F) Storage temperature range: -40 to 85°C (-40 to 185°F) 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. See Warranty Information and Terms & Conditions on www.predig.com for complete details.

# **Process Input**

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O-5 V, 1-5 V, 0-10 V, or ±10 V	INPUTS		
### ### #############################			
FUNCTION         Linear           TEMPERATURE DRIFT         50 PPM/°C from 0 to 65°C ambient           DECIMAL POINT         Up to three decimal places:           dddd, dddd, or dddd         Programmed via front panel buttons           CALIBRATION RANGE         An Error message will appear if input 1 and input 2 signals are too close together.           Input Range Input 1 & Input 1 & Input 2 4-20 mA 2.40 mA ±10 V 0.20 V           INPUT IMPEDANCE         Voltage ranges: greater than 1 MΩ Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)           INPUT OVERLOAD         Current input protected by resettable fuse. Fuse resets automatically after		· · · · · · · · · · · · · · · · · · ·	•
TEMPERATURE DRIFT  DECIMAL POINT  Up to three decimal places: dddd, dddd, or dddd Programmed via front panel buttons  CALIBRATION RANGE  An Error message will appear if input 1 and input 2 signals are too close together. Input Minimum Span Input 1 & Input 2 4-20 mA 0.40 mA ±10 V 0.20 V  INPUT IMPEDANCE  INPUT Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)  Current input protected by resettable fuse. Fuse resets automatically after	ACCURACY	±0.05% FS ±1 cou	nt
DRIFT  DECIMAL POINT  Up to three decimal places: dddd, dddd, or dddd Programmed via front panel buttons  CALIBRATION RANGE  An Error message will appear if input 1 and input 2 signals are too close together.  Input Minimum Span Range Input 1 & Input 2 4-20 mA 0.40 mA ±10 V 0.20 V  INPUT IMPEDANCE  Voltage ranges: greater than 1 MΩ Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)  INPUT OVERLOAD  Current input protected by resettable fuse. Fuse resets automatically after	FUNCTION	Linear	
d.ddd, dd.dd, dd.dd, or dddd         Programmed via front panel buttons         CALIBRATION RANGE       An Error message will appear if input 1 and input 2 signals are too close together.         Input Minimum Span Range Input 1 & Input 2 4-20 mA 0.40 mA ±10 V 0.20 V         INPUT IMPEDANCE       Voltage ranges: greater than 1 MΩ Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)         INPUT OVERLOAD       Current input protected by resettable fuse. Fuse resets automatically after		50 PPM/°C from 0 to 65°C ambient	
Programmed via front panel buttons  CALIBRATION RANGE  An Error message will appear if input 1 and input 2 signals are too close together.  Input Minimum Span Input 1 & Input 2 4-20 mA 0.40 mA ±10 V 0.20 V  INPUT Voltage ranges: greater than 1 MΩ Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)  INPUT Current input protected by resettable fuse. Fuse resets automatically after	DECIMAL POINT	Up to three decimal places:	
CALIBRATION RANGE  An Error message will appear if input 1 and input 2 signals are too close together.  Input Minimum Span Input 1 & Input 2 4-20 mA 0.40 mA ±10 V 0.20 V  INPUT Voltage ranges: greater than 1 MΩ Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)  INPUT Current input protected by resettable fuse. Fuse resets automatically after		d.ddd, dd.dd, dd	1d.d, or dddd
RANGE       and input 2 signals are too close together.         Input Range       Minimum Span Input 1 & Input 2 & & Input		Programmed via front panel buttons	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CALIBRATION	An Error message will appear if input 1	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	RANGE	and input 2 signals are too close	
$\begin{array}{cccc} & \text{Range} & \text{Input 1 \& Input 2} \\ & 4\text{-}20 \text{ mA} & 0.40 \text{ mA} \\ & \pm 10 \text{ V} & 0.20 \text{ V} \\ \hline \textbf{INPUT} & \text{Voltage ranges: greater than 1 M}\Omega \\ & \text{Current ranges: 50 - 100 }\Omega \\ & \text{(depending on resettable fuse impedance)} \\ \hline \textbf{INPUT} & \text{Current input protected by resettable} \\ \textbf{OVERLOAD} & \text{fuse. Fuse resets automatically after} \\ \end{array}$		together.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Input Minimum Span	
$\begin{array}{ccc} & \pm 10 \text{ V} & 0.20 \text{ V} \\ \hline \textbf{INPUT} & \textbf{Voltage ranges: greater than 1 M}\Omega \\ \hline \textbf{IMPEDANCE} & \textbf{Current ranges: 50 - 100 }\Omega \\ \hline \textbf{(depending on resettable fuse impedance)} \\ \hline \textbf{INPUT} & \textbf{Current input protected by resettable} \\ \hline \textbf{OVERLOAD} & \textbf{fuse. Fuse resets automatically after} \\ \hline \end{array}$		Range	Input 1 & Input 2
		4-20 mA	0.40 mA
IMPEDANCE         Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)           INPUT         Current input protected by resettable fuse. Fuse resets automatically after		±10 V	0.20 V
(depending on resettable fuse impedance)  INPUT  OVERLOAD  Current input protected by resettable fuse. Fuse resets automatically after	INPUT	Voltage ranges: greater than 1 M $\Omega$	
INPUT Current input protected by resettable fuse. Fuse resets automatically after	IMPEDANCE		
OVERLOAD fuse. Fuse resets automatically after			
	• .	Current input protected by resettable	
fault is removed.	OVERLOAD		
	-	tault 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

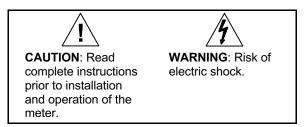
**Electromagnetic Compatibility** 

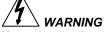
Electromagnetic Compatibility			
EMISSIONS	EN 55011:2009+Al:2010 Group 1 Class A ISM emissions requirements		
Radiated Emissions	Class A		
AC Mains Conducted Emissions	Class A		
IMMUNITY	EN 61326-1:2013 Measurement, control, and laboratory equipment EN 61000-6-2:2005 EMC heavy industrial generic immunity 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.

### **SAFETY INFORMATION**





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.

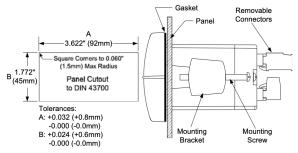
#### Unpacking

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 on page 6 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** 

#### MOUNTING DIMENSIONS

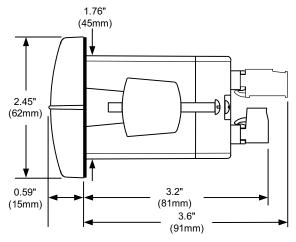


Figure 2. Meter Dimensions - Side View

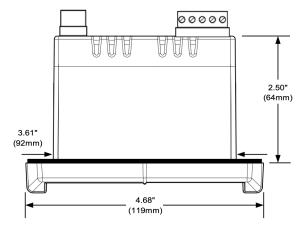


Figure 3. Case Dimensions - Top View

#### **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.

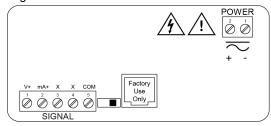


Figure 4. Connector Labeling - No Options

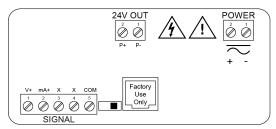
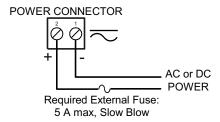


Figure 5. Connector Labeling - Meter with 24 V Supply

#### **Power Connections**

Power connections are made to a two-terminal connector labeled POWER on Figure 4. The meter will operate regardless of DC polarity connection. The + and - symbols are only a suggested wiring convention.



**Figure 6. Power Connections** 

#### **Signal Connections**

Signal connections are made to a five-terminal connector labeled SIGNAL on Figure 4. 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.

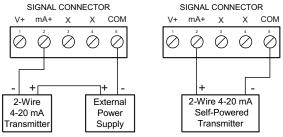


Figure 7. Transmitter Powered by External Supply or Self-Powered

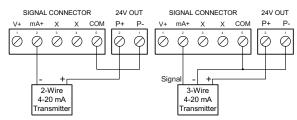


Figure 8. Transmitters Powered by Internal Supply (Optional)

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.

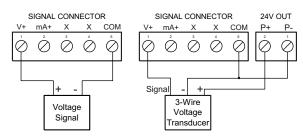


Figure 9. Voltage Input Connections

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

#### **SETUP AND PROGRAMMING**

#### 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 12

# Front Panel Buttons and Status LED Indicators



Button Symbol	Description
C	Menu
	Right arrow/Reset
	Up arrow/Max
(4)	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**

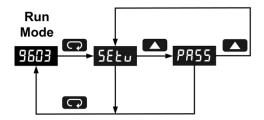
The meter displays various functions and messages during setup/programming and operation. The following table shows the displayed functions and messages with their action/setting description.

Display	Parameter	Action/Setting
SEŁu	Setup	Enter Setup menu
inPt	Input	Enter Input menu
4-20	4-20 mA	Set meter for 4-20 mA input
0- 10	0-10 VDC	Set meter for ±10 VDC input
dEc.P	Decimal point	Set decimal point for process inputs
Proū	Program	Enter the <i>Program</i> menu
Scal	Scale	Enter the Scale menu
EAL	Calibrate	Enter the Calibrate menu
inP I	Input 1	Calibrate input 1 signal or program input 1 value
d 15 l	Display 1	Program display 1 value
inP2	Input 2	Calibrate input 2 signal or program input 2 value
d :52	Display 2	Program display 2 value
Err	Error	Error, calibration not successful, check signal
PRSS	Password	Enter the Password menu
unLE	Unlocked	Program password to lock meter
Lo[d	Locked	Enter password to unlock meter
9999 - 1999	Flashing display	Overrange condition Underrange condition

#### Main Menu

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

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



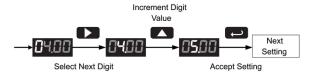
- Press Menu, at any time, to exit and return to Run Mode. Changes made to settings prior to pressing Enter/Ack are not saved.
- Changes to the settings are saved to memory only after pressing Enter/Ack.
- The display moves to the next menu every time a setting is accepted by pressing Enter/Ack.

#### **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 (5ELu)

The Setup menu is used to select:

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

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.

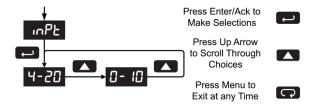


#### Setting the Input Signal ( InPL)

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  $\pm$ 10 VDC signals.

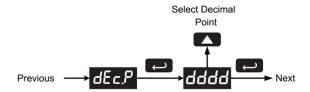
The current input is capable of accepting any signal from -20 to 20 mA. Select current input to accept 0-20 or 4-20 mA signals.



#### Setting the Decimal Point (dEc.P)

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.

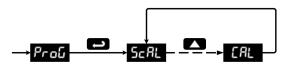


## Programming the Meter (Prob)

The meter may either be scaled (5cRL) without applying an input or calibrated (ERL) by applying an input. The meter comes factory calibrated to NIST standards, so for initial setup, it is recommended to use the (5cRL) function.

The Program menu contains the Scale (5cRL) and the Calibrate (ERL) menus.

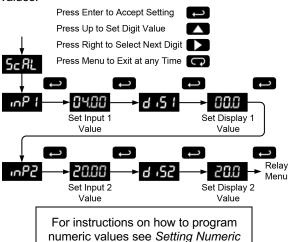
Process inputs may be scaled or calibrated to any display within the range of the meter.



#### Scaling the Meter (5cRL)

The process inputs (4-20 mA and  $\pm 10$  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.



Values, page 9.

#### Error Message ( rr)

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:

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

#### Minimum Input Span

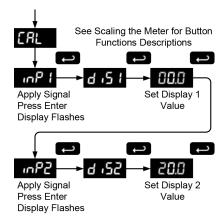
The minimum input span is the minimum difference between input 1 and input 2 signals required to complete the calibration or scaling of the meter.

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

#### Calibrating the Meter (CRL)

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

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



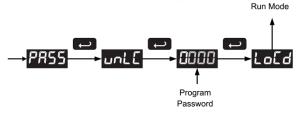
## Setting Up the Password (PR55)

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 9.

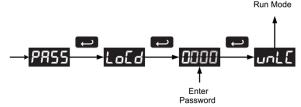


Record the password for future reference. If appropriate, it may be recorded in the space provided.

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 LoEd (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:

- Note display reading prior to pressing the Menu button. Ignore decimal point and sign.
- 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**

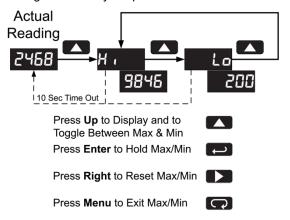
For process inputs, the meter is capable of accepting positive and negative signals and displaying these signals in engineering units from -1999 to 9999 (e.g. a signal from -10 to +10 VDC could be displayed as -1000 to 1000).

#### **Front Panel Buttons Operation**

Button Symbol	Description
C	Press to enter or exit Programming Mode, view settings, or exit Max/Min readings
<b>&gt;</b>	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 arrow/Max button to display maximum reading since the last reset/power-up.
- Press **Up** arrow/**Max** again to display the minimum reading since the last reset/power-up.
- Press Enter/Ack to hold Max/Min display reading, the meter will continue to track new Max/Min readings.
- 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.
- Press Right arrow/Reset button to reset Max/Min while reading is being displayed. Max/Min display readings are reset to actual reading.

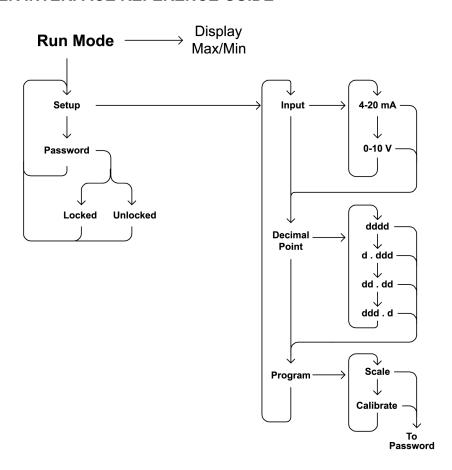
## **TROUBLESHOOTING**

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, LoEd is displayed	Meter is locked, enter correct four-digit password to unlock
Meter displays error message during calibration (err)	Check: 1. Signal connections 2. Input selected in Setup menu 3. Minimum input span requirements
Meter displays  9999  1999	Check: 1. Input selected in <i>Setup</i> menu 2. Corresponding signal at Signal connector
Display alternates between  1. H and a number  2. Lo and a number	Press <b>Menu</b> 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}

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