

PD6600 Series

Loop Leader Loop-Powered Process Meters



PD6602/6
Decimal Display

PD6603/7
Feet & Inches Display

PD6604/8
Decimal Display with Bargraph



- 1/8 DIN Loop-Powered Process Meters with NEMA 4X, IP65 Front
- 4-20 mA Input Displayed with $\pm 0.02\%$ FS Accuracy
- 1.5 Volt Drop (4.5 Volt Drop with Backlight)
- 0.7" (17.8 mm) 5 Alphanumeric Characters Top Display
- 0.4" (10.2 mm) 8 Alphanumeric Characters Bottom Display
- Displays Level in Feet & Inches up to 999 Feet, 11 & 15/16 Inches
- 20-Segment Bargraph with Numeric Percent Indication, Optional
- (2) Open Collector Outputs Standard; Assignable to Pulse, Alarm, Timer, or Stopwatch
- (2) Optional Loop-Powered Solid-State Relays; Assignable to Alarm, Control, Timer, or Stopwatch
- Stopwatch & Timer Functions to Drive Relays & Open Collectors
- Optional Isolated 4-20 mA Analog Output
- Relay Pump Alternation Based on Level and Runtime
- Display Relay Runtime & Cycle Count via Relay Info Menu
- Round Horizontal Tank Function; Just Enter Diameter & Length
- 32-Point Linearization, Square Root Extraction and Programmable Exponent Function
- Free PC-Based MeterView XL USB Programming Software
- Loop-Powered Backlight with Red Backlight for Alarm Conditions
- Safe Area Operating Temperature Range: -40 to 167°F (-40 to 75°C)
- Conformal Coated PCBs for Dust & Humidity Protection
- UL & C-UL 61010 Listed for Electrical Safety
- UL & C-UL Listed as Intrinsically Safe and Nonincendive
- ATEX and IECEx Certified as Intrinsically Safe
- 3-Year Warranty

Watch the Loop Leader Series Video



Click or scan

PD6600 Series Loop Leader Loop-Powered Process Meters

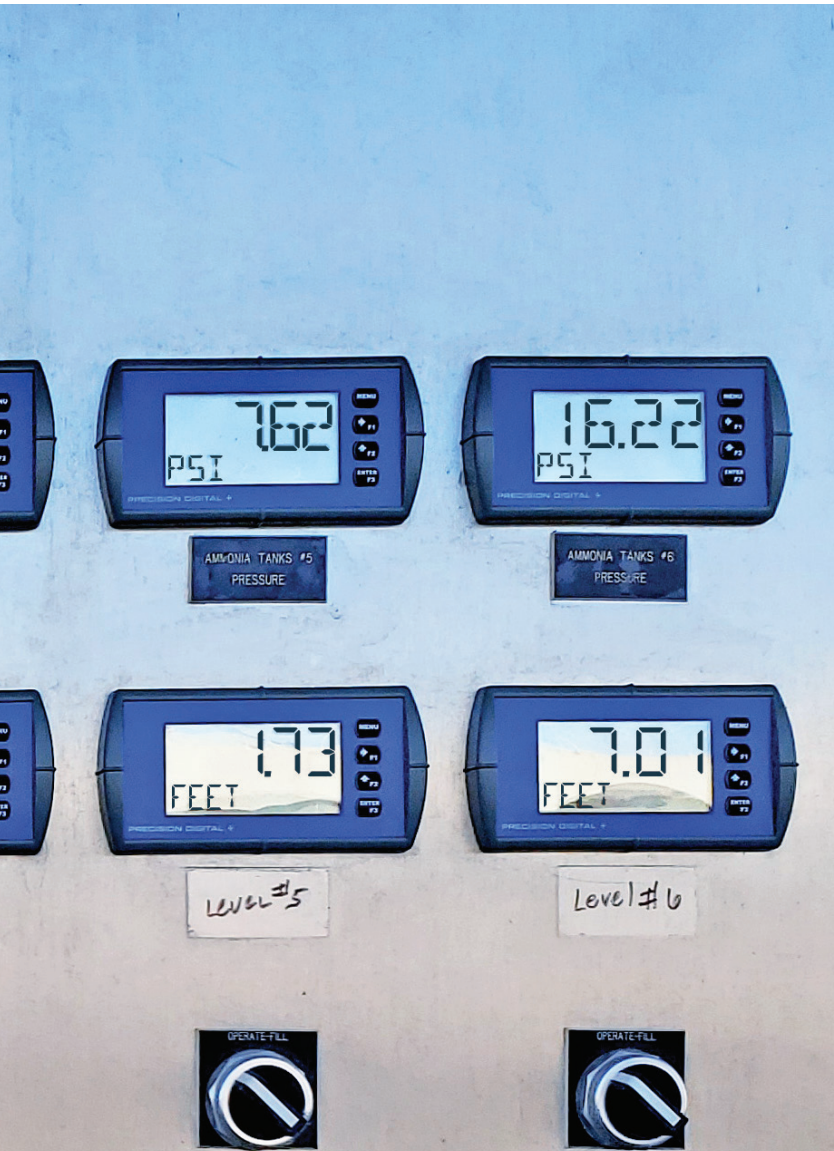


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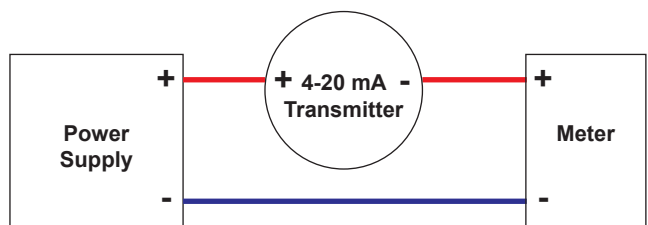
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WHY USE LOOP-POWERED METERS?

The most basic decision a user wishing to display a 4-20 mA signal on a digital display has to make is: should the meter be powered by line voltage or should it be powered by the 4-20 mA loop? The meters in this data sheet are powered by the 4-20 mA loop. The three main benefits of this are:

- No additional power required
- Easy wiring
- Additional digital displays can easily be added in the same loop

The diagram on the right illustrates how a loop-powered meter is wired. Notice there are only two connections made to the meter.



For more information on loop-powered meters, check out these white papers:

[Fundamentals of Loop-Powered Devices](#)

[Loop-Powered vs Line-Powered Meters](#)

PD6600 Series Loop Leader Loop-Powered Process Meters

OVERVIEW

Front



PD6602/6
Decimal Display

- 5-Digit alphanumeric top line
- 8-Digit alphanumeric bottom line



PD6603/7
Feet & Inches Display

- Feet & inches on top line
- 8-Digit alphanumeric bottom line
- 20-Segment bargraph with numeric percentage

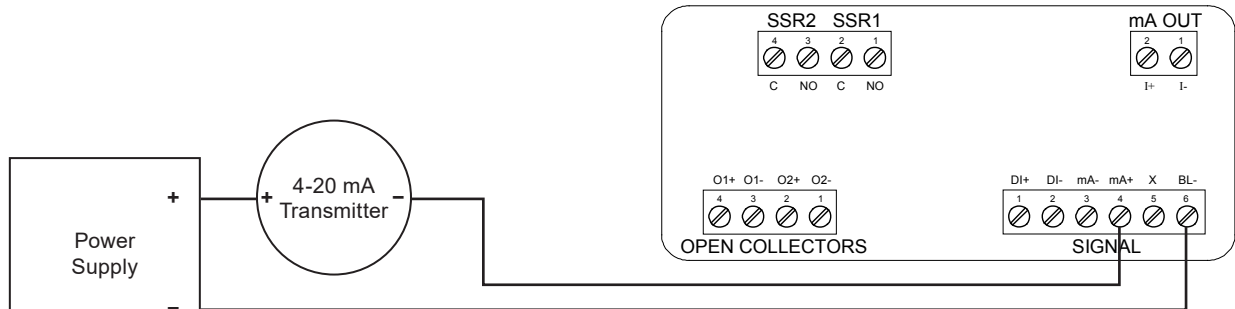


PD6604/8
Decimal Display with Bargraph

- 5-Digit alphanumeric top line
- 8-Digit alphanumeric bottom line
- 20-Segment bargraph with numeric percentage

Connections

- (2) Open Collector Outputs Standard; Assignable to Pulse, Alarm, Timer, or Stopwatch
- Digital Input for Remote Operation of a Single Task
- (2) Optional Loop-Powered Solid-State Relays; Assignable to Alarm, Control, Timer, or Stopwatch
- Optional Isolated 4-20 mA Analog Output



Connections for -L5N Option

Loop-Powered Indicators with Advanced Display and Control Features

These loop-powered 1/8 DIN digital panel meters can be installed virtually anywhere to provide convenient and informative display of any 4-20 mA signal. One of the most convenient features of these instruments is their dual line display, which is typically used to display the process variable on the 5-digit alphanumeric top display and the units of measure or a tag on the 8-digit alphanumeric bottom display. Feet and inches models display level in feet and inches on the top display while the 8-digit alphanumeric bottom line may be used to display a tag or custom message.

Further enhancing the display on these instruments is a 20-segment bargraph available on the PD6603/7 and PD6604/8 that also includes a numeric value of the percentage the bargraph represents.

Free, PC-based, MeterView XL software that connects to the meter via a micro USB cable is available for programming and setup of the meters.

All models come equipped with two open collector outputs and a digital input. There are also models available with two solid-state relays and isolated 4-20 mA analog output options. The open collector outputs are useful for alarm indication. The digital input can be used to acknowledge the relays, to start/stop a timer/stopwatch, and more. The relays can be programmed for alarm indication, on/off control, or pump alternation.

Finally, there are intrinsically safe and nonincendive versions of these instruments that can be installed in hazardous areas.

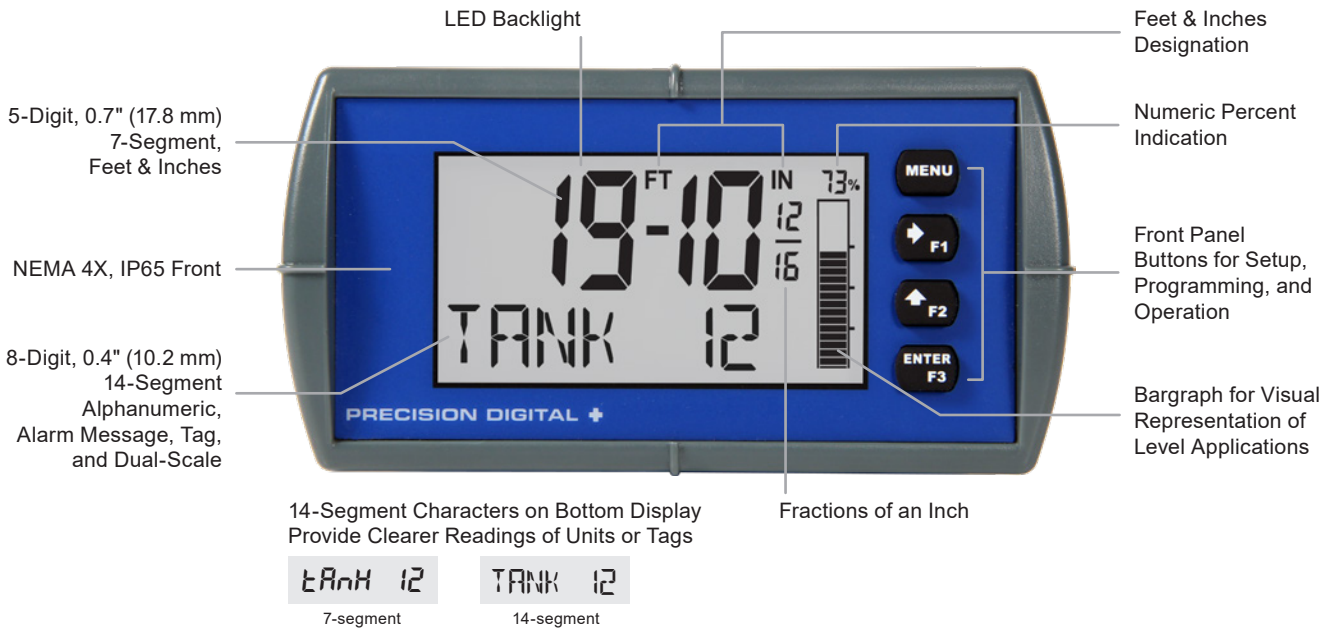
PD6600 Series Loop Leader Loop-Powered Process Meters

DISPLAY FEATURES

PD6602/6 Process Meter with Decimal Display



PD6603/7 Feet & Inches Level Meter with Bargraph



PD6600 Series Loop Leader Loop-Powered Process Meters

PD6604/8 Process Meter with Decimal Display & Bargraph



Commas Make it Easy to Read Big Numbers

The bottom display is set to show a comma separating the thousands and millions place by default if a numeric value is being displayed. This feature can be disabled or enabled using the *Comma* menu.



Red, Flashing Display Gets People's Attention When Alarms Occur

When an alarm occurs, the Loop Leader's display can be programmed to turn red, flash, display a custom alarm message on the bottom display, and display an alarm indicator (!) (Alarm indicator symbol is not available on bargraph models). These features can be activated even if no relay or open collector is connected.



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Dual-Line Display with PV/Units/Tag/ Bargraph

One of the most common configurations of these instruments is displaying the process variable on the top line and units and a tag toggling on the bottom line with a bargraph for additional clarity.



PV on the top line, units and tag toggling on the bottom line

To help users get a quick understanding of where their process is at, certain Loop Leader models are available with a 20-segment bargraph. This bargraph also includes a numeric value of the percentage the bargraph represents.

Two-Color Backlight

The loop-powered backlight is standard on all Loop Leader meters. It provides optimum visibility in any lighting condition and it can be programmed to turn red for alarm conditions. The backlight may be enabled or disabled using the *Backlight* menu. The backlight is enabled by default (input must be wired appropriately for the backlight to function).



Backlight for Visibility in Any Lighting Condition and Red Backlight for Alarm Indication

14-Segment Characters

Notice how much better letters like “T”, “N” and “K” appear as 14-segment characters on the bottom display vs. 7-segment characters found on other meters.



7-Segment



14-Segment

Dual-Scale Display Feature

Users can use the Loop Leader’s dual-scale feature when they want to show the same input in two different scales. For instance, the following example shows an application where the Loop Leader displays the input in feet and gallons.

Feet & Inches Display with Bargraph

There are Loop Leader models available for users that prefer to see their level displayed in feet & inches instead of decimal format. These versions can display level to 999FT 11IN & 15/16 on the top line. The bottom line can toggle between a tag and units or if dual scale mode is used, can display the input in a different scale such as volume.



Level in Feet & Inches with tag and bargraph

Display Feet & Gallons and Toggle Between Units



Feet Value on Top
Gallons Value on Bottom



Height Units on Top
Volume Units on Bottom



Same Meter with Bottom Line toggling between tag, volume (62,346), and units (Gallons)

PD6600 Series Loop Leader Loop-Powered Process Meters

Max/Min Display

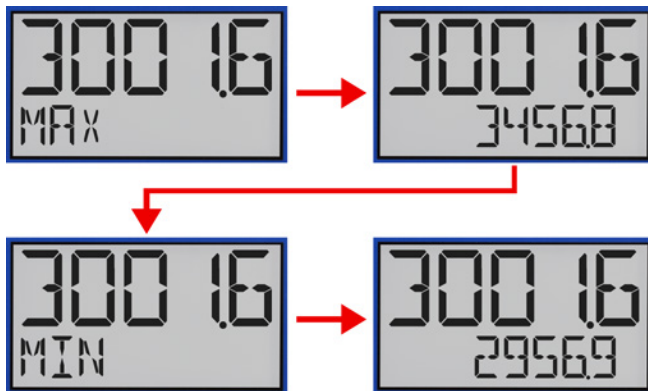
The max & min readings (peak & valley) reached by the process can be displayed either continuously or momentarily.

- Display momentarily by pressing the F1 key (default) or assigning to any of the other function keys or to the digital input in the User menu. Press Enter to lock/unlock max/min display.
- Display continuously by assigning either display line to max/min through the Display menu.

Any of the F1-F3 function keys (buttons) and the digital input can be programmed to reset the max & min readings.

Top Display: Process Value

Bottom Display: Max & Min



Bargraph Provides Quick Understanding

To help users get a quick understanding of where their process is at, certain Loop Leader models are available with a 20-segment bargraph. This bargraph also includes a numeric value of the percentage the bargraph represents. The bargraph can be programmed to represent the percent of PV1 or PV2 or it can be scaled to any range within the scale.



Bargraph indicating a 200 gallon tank is just about full

Predefined and Custom Units

The meter has six available preprogrammed unit classes, volume, height, temperature, pressure, weight, and rate. When the desired unit class or unit of measure within a class is not available, a custom unit may be programmed by using the (CUSTOM) menu.

Change Between Units without Needing to Re-Scale the Meter

It is possible to change the display units within the selected unit class without the need to re-scale the meter. When selecting a new unit from within the DISPLAY menu (e.g. changing from gallons (GAL) to liters (L), the meter will automatically convert the display values to display the new unit. If entering a custom unit (CUSTOM), a custom conversion factor will need to be entered.

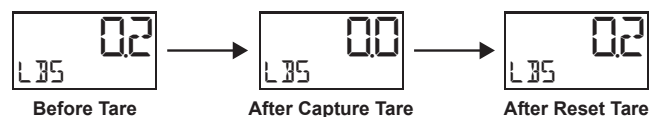


Volume in Gallons

Volume in Liters

Tare

The tare function zeroes out the display. In the case of scale weight, tare is used to eliminate container weight and provide net weight readings. The captured tare may be reset manually with any function key or digital input.



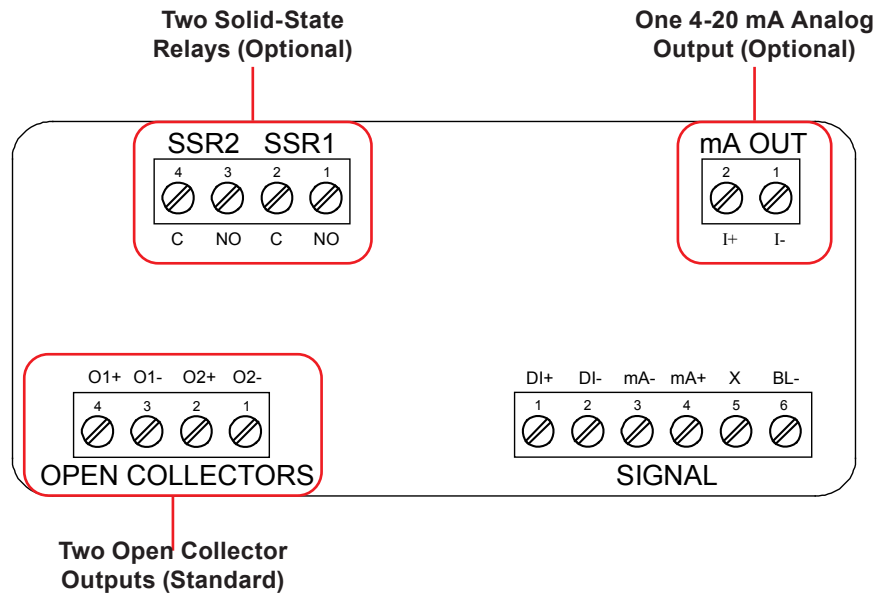
Before Tare

After Capture Tare

After Reset Tare

OUTPUTS

Loop Leaders are available with two open collector outputs as standard and two solid-state relays and 4-20 mA output as options. The open collector outputs and relays generally operate in the same manner, with the major exception being the open collectors are not available for pump alternation and the relays are not available with pulse features. The open collectors and relays can be controlled either automatically or manually. The alarm status (with flashing red message) will show on the display even with no output wired.



Two Open Collector Outputs

The meter is equipped with two NPN open collector outputs that may be set up for pulse outputs, alarms, timed pulses, stopwatch on/off, or disabled. Pulse outputs can be set to transmit the PV value (PV1 or PV2 if meter is in dual-scale mode). Output 2 may be used to generate a quadrature output based on the other open collector output. An output test mode is also selectable to generate pulses at a constant programmable frequency.

Two Optional Solid-State Relays

The meter is optionally equipped with two solid-state relays that may be set up for alarms, timer, stopwatch on/off, or pump alternation. The relays are rated at 250 VAC/DC @ 1 A for resistive loads and 75 VA @ 0.6 A, 250 VAC/DC max (Safe Area only) for inductive loads. Alarms are available based on the PV value or the digital input.

Optional Isolated 4-20 mA Output

The isolated analog output signal can be configured to represent the process variable (PV1, PV2, or retransmit). While the output is nominally 4-20 mA, the signal will accurately accommodate under- and over-ranges from 1 to 23 mA. The output can be reverse scaled such that the meter's high calibration value outputs 4 mA and the meter's low calibration outputs 20 mA.

Loop-Powered Relay Alarm Trip for General Purpose & Hazardous Areas

The two solid-state relays can be used as a loop-powered relay alarm trip in both general purpose and hazardous areas. The Loop Leader's two relays can be programmed for two different kinds of latching operation: Reset via momentary contact closure at any time or reset via momentary contact closure only after the alarm has cleared. And the meter's display can be programmed to turn red and flash an alarm message – something not found on most loop-powered alarm trips.

Resetting the Open Collectors and Relays

The open collectors and relays (alarms) may be programmed to reset in the following ways:

- **Automatic (R[UN]T[O]FF):** Alarm will reset automatically once the alarm condition has cleared.
- **Automatic/Manual (R[UN]T[O]FF/MAN):** Alarm will reset automatically once the alarm condition has cleared but can also be reset using the Enter button (or whichever function key is set to acknowledge) at any time.
- **Latching (LATCH):** Alarm must be reset manually and can be done so at any time. Press the Enter (ACK) button at any time to clear the alarm.
- **Latching with Reset after Cleared (L-CLEAR):** Alarm must be reset manually and can only be done so after the alarm condition has cleared. Press the Enter (ACK) button after the alarm condition has cleared to reset the alarm.

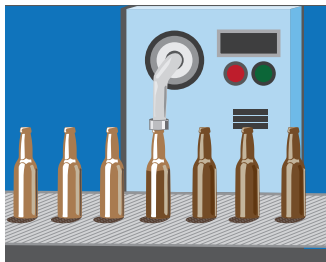
Timer Function

Timers are used in everyday life; one of the most common examples is the microwave oven. Industrial timers are used in process control applications where certain events or actions need to be controlled by time. Examples include automatic batch control applications, where the relay needs to be energized for a specific length of time.

The timer function is available on the open collector and relay outputs; which means that you can have up to four timers per meter. The start and stop actions can be triggered from the setup menu or by the function keys and digital input. The meter can be setup to display the off/on timer count down.

There are two modes of operation:

- **Continuous Timer (Interval)**
At the start of the timer the output is off and turns on after the Off Delay elapses. The output remains on for the duration of the On Time. The cycle repeats until the user stops the timer either from the menu or a function key.
- **One-Shot Timer**
At the start of the timer the output is off and turns on after the Off Delay elapses. The output remains on for the duration of the On Time. The timer stops and the cycle does not repeat.



1. A sensor detects the bottle is in place and triggers the digital input to start the timer
2. The timer output controls the filling pump
3. The On Time is set according to the time needed to fill the bottle

Loop-Powered Isolator for General Purpose & Hazardous Areas

The Loop Leader can be used as a loop-powered isolator for the 4-20 mA signal in both general purpose and hazardous areas with the added benefit of a digital readout to display the process variable.

PUMP CONTROL

Loop Leaders, when ordered with the two solid-state relays, have several features that make them ideal for simple duplex pump control. The relays can be programmed to alternate the pumps based on level and runtime thus ensuring even wear on both pumps. If the level remains constant (within on/off points), alternation is based on runtime. If the level cycles the on/off points, alternation is based on level and runtime. If the runtime is set to 0, alternation is based on level. The meter also keeps track of runtime for both pumps and the number of times they have cycled.

Display Pump Runtime & Cycle Count



The meter can display pump runtime for both pumps



The meter can display the number of times the relays have cycled

In addition to the two solid-state relays for controlling pumps, the meter's two open collectors could be used to indicate high or low level alarm conditions.

Pump Alternation Application

The Loop Leader can be used as a pump controller to alternate two pumps and provide high and low level alarm indication. The pumps can be programmed to alternate on level and runtime and the meter can display the pump runtimes and the number of times they have cycled. The PD6606-L2N can be used as an intrinsically safe pump controller.

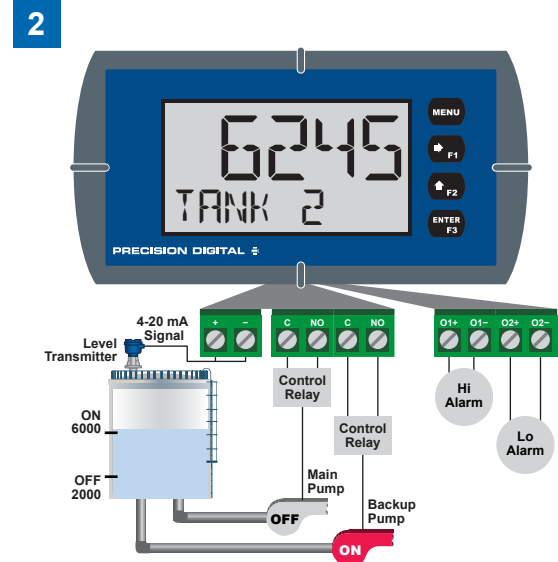
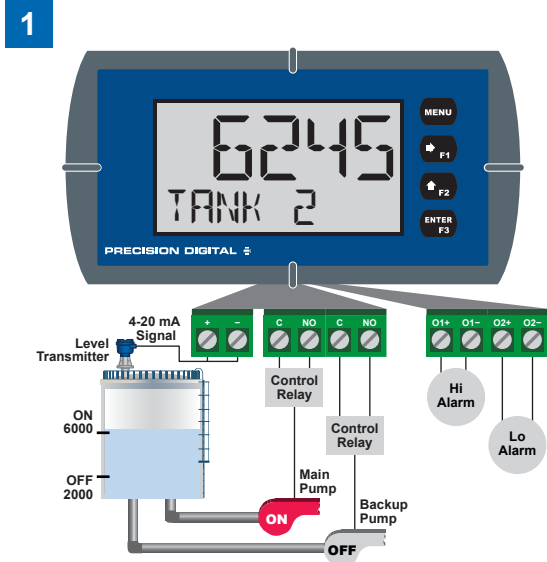
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Pump Control with Alternation & Alarm Example

The following is a typical application where the relays and open collectors are used for pump alternation and high/low level alarm.

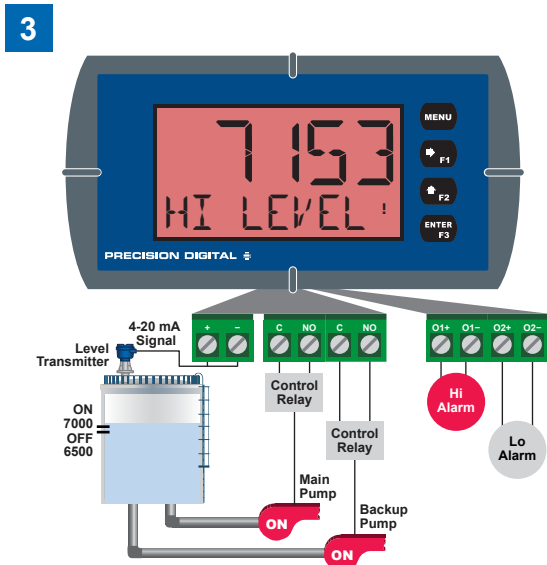
Relay	On Point	Off Point	Function
1	7000	2000	Controls backup pump
2	6000	2000	Controls main pump

OC	On Point	Off Point	Function
1	7000	6500	Trips high alarm
2	1000	1500	Trips low alarm

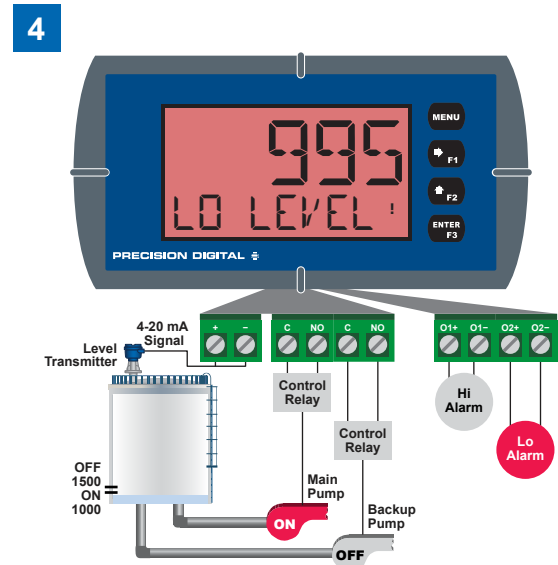


Relay #2 turns the main pump on at 6000 gallons and turns it off at 2000 gallons.

With the Pump Alternation feature activated, the next time the level reaches 6000 gallons, relay #1 transfers and starts the backup pump.



If the backup pump is not able to keep up, and the level reaches 7000 gallons, relay #2 transfers and starts the main pump as well. Open collector #1 trips the High Level Alarm, the display turns red and flashes "Hi Level" message, and (!) indicates an alarm condition. The High Level Alarm resets at 6500 gallons.



Once the level has dropped below the reset points, both relays will turn off. If the Main Pump fails to turn off, open collector #2 trips the Low Level Alarm at 1000 gallons to warn against the pump running dry. The Low Level Alarm resets at 1500 gallons.

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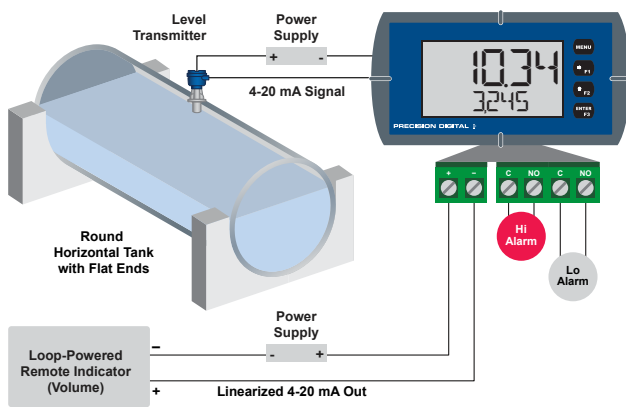
INPUT SIGNAL CONDITIONING

To satisfy applications that require scaling in ways other than the usual 2-point linear method, the Loop Leader can also be scaled for square root (DP flow), programmable exponent (open channel flow) or round horizontal tank volume calculation.

For existing processes that require these linearization capabilities, one of the great benefits of loop-powered meters is that they get their power directly from the 4-20 mA loop and thus require no additional wiring. All a user has to do is break the existing loop and wire in the meter. For this reason, loop-powered meters are very easy to add to existing applications such as DP flow, open channel flow, or round horizontal tank volume calculation.

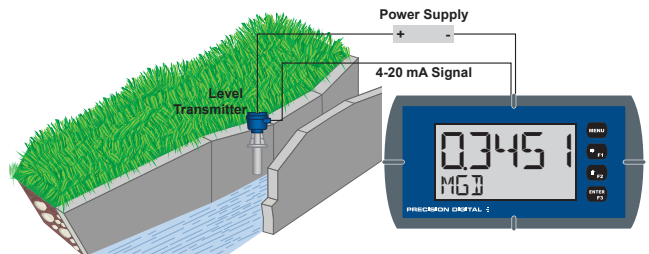
Round Horizontal Tank Linearization

This function automatically calculates the volume in a round horizontal tank with flat ends.



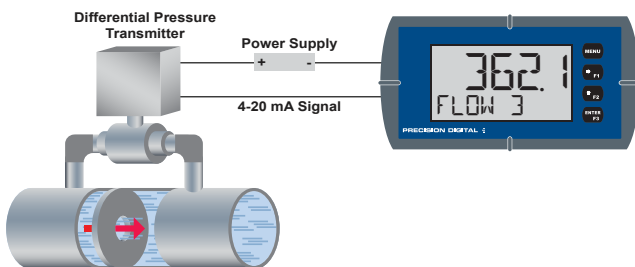
Programmable Exponent Linearization

The programmable exponent can be used to linearize the signal from level transmitters in open-channel flow applications using weirs and flumes.



Square Root Linearization

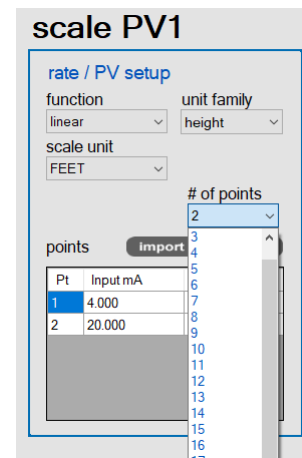
The square root function can be used to linearize the signal from a differential pressure transmitter and display flow rate in engineering units. The meters in this data sheet will display flow rate only. To display both flow rate and total use the [PD6622](#), [PD6624](#), [PD6626](#) or [PD6628](#).



Multi-Point Linearization

Meters are set up at the factory for linear function with 2-point linearization. Up to 32 linearization points can be selected for the scaled value under the linear function. Multi-point linearization can be used to linearize the display for non-linear signals to convert level to flow using weirs and flumes with complex equations.

MeterView XL makes it easy to program up to 32 points.



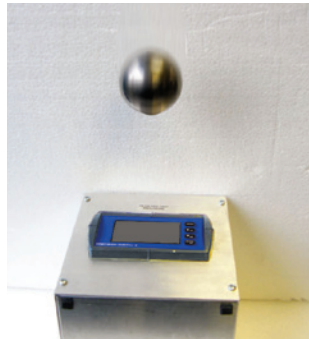
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PHYSICAL FEATURES

The Loop Leader is designed for ease-of-use in industrial applications. Considerations include a NEMA 4X front panel, wide operating temperature range, removable screw terminal connectors, snap in place mounting brackets, forgiving panel cutout requirement, and UL Listing for electrical safety. All of these features are backed by a 3-year warranty.

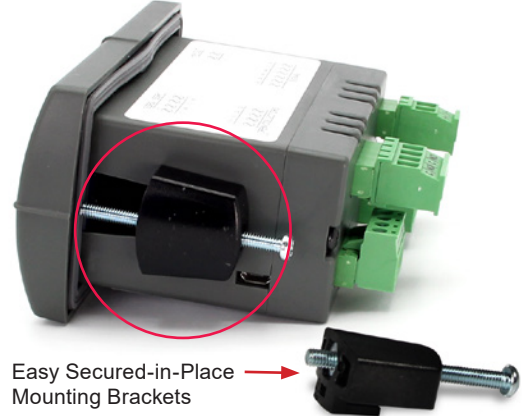
Type 4X / NEMA 4X Front Panel

Not only does the Loop Leader's front panel UL Type 4X approval indicate it is waterproof, but it also indicates it is rugged. Part of the UL Type 4X test is to drop a 2 inch solid stainless steel ball from 8 feet on top of the meter's faceplate.



Secured-in-Place Rugged Mounting Brackets

If you're installing the Loop Leader outdoors in the hot or cold weather, the last thing you want to do is fumble around with mounting brackets that don't stay in place. The Loop Leader's mounting brackets can be easily secured into place and then screwed down to the panel. These brackets are rugged so they can be tightened to the panel to provide a solid NEMA 4X seal.



Easy Secured-in-Place Mounting Brackets

Wide Operating Temperature Range

The Loop Leader can operate from -40 to 75°C (-40 to 167°F) in safe areas and from -40 to 70°C (-40 to 158°F) in hazardous areas. This means it can be installed in a wide variety of indoor and outdoor industrial applications. And over this range, the Loop Leader will drift no more than 0.003% of calibrated span/°C from -40 to 75°C ambient.

Forgiving Panel Cutout Requirement

The Loop Leader's bezel has been oversized to allow for not perfectly executed panel cutouts where NEMA 4X seal is not required.



Over-Sized Bezel to Completely Cover Panel Cutouts

Removable Screw Terminal Connectors

Industrial applications require screw terminal connections for easy field wiring and the Loop Leader goes one step further in convenience by making them removable also.



Easy Plug-in Removable Terminal Connectors

USB Port for Easy Connection to Free MeterView XL Software






OPERATIONAL FEATURES

There are two ways the user can interact with the Loop Leader to perform a variety of useful functions: programmable function keys and the digital input.

Programmable Function Keys

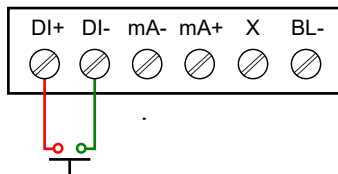
The three front panel buttons labeled F1, F2, and F3 can be programmed as function keys to perform a variety of meter functions simply by pressing the button. These include operation of the tare function, resetting the tare, resetting the meter's relays or open collectors, starting and stopping timers, and displaying max/min values. The default settings for the function keys are:

Button	Description (Default Settings)
 F1	Press to display max/min readings.
 F2	Press to reset max/min readings.
 ENTER F3	Press to acknowledge all manually resettable relays or open collectors. Press to lock/unlock the display value after pressing the F1 key.

For a complete list of Function Keys settings, see *Function Keys & Digital Input Available Settings* on the next page.

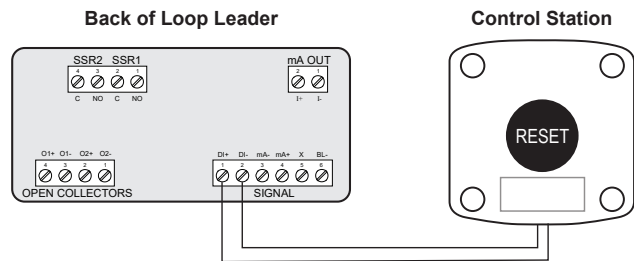
On-Board Digital Input

A digital input is standard on the meter. This digital input is programmed identically to the function keys. The input is triggered with a contact closure between DI+ and DI-, or with an active low signal. For a complete list of Digital Input settings, see *Function Keys & Digital Input Available Settings* on the next page.



Remote Operation of Meter

The meter is equipped with a digital input that can be programmed to perform various functions. Common uses for this digital input would be for resetting the meter's relays or open collectors, starting and stopping timers, and displaying max/min values. For a complete list of Digital Input settings, see *Function Keys & Digital Input Available Settings* on the next page. The digital input could be connected to a PDA2361-R single button remote control station as illustrated below.



Available Single Button Control Stations



PDA2360-E



PDA2361-A



PDA2361-B



PDA2361-R



PDA2361-T



PDA2361-S



PDA2361-Q

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Function Keys & Digital Input Available Settings

The following table describes the actions that the Loop Leader function keys and digital input can perform.

Display	Description
DISP FN	Set the function key or digital input to display a value
DISPLAY	Cycle max, min, and PV(s)
DISP PV	Display the PV
PCT PV	Display the PV's percentage of max (20 mA)
UNITS	Display the PV's units
TAG	Display the PV's tag
DISPMIN	Display the PV's minimum
DISPMAX	Display the PV's maximum
MIN MAX	Display the PV's minimum and maximum value
mA IN	Display the mA input value
mAOUT	Display the mA output value
MENU FN	Set the function key or digital input to access a menu
RLYINFO	Go to relay information menu (INFO)
MANCTRL	Go to output control menu (CONTROL)
TIMR OC1	Open collector 1 timer
TIMR OC2	Open collector 2 timer
TIMER R1	Relay 1 timer
TIMER R2	Relay 2 timer
TIMERFN	Set the function key or digital input to start or stop a timer
STARTALL	Start all timers
STOPALL	Stop all timers
SSTPALL	Start or stop all timers
OC1	Start/stop open collector 1 timer
OC2	Start/stop open collector 2 timer
RLY1	Start/stop relay 1 timer
RLY2	Start/stop relay 2 timer
START	Start the selected timer output
STOP	Stop the selected timer output
STR--STP	Start or stop the selected timer output

Display	Description
ALARMFN	Set the function key or digital input to acknowledge an alarm
ACK	Acknowledge all active alarms
SETPOINT	Set all output set point
SETPTOC1	Set open collector 1 set point
SETPTOC2	Set open collector 2 set point
SETPTR1	Set relay 1 set point
SETPTR2	Set relay 2 set point
SWATCHFN	Set the function key or digital input to activate stopwatch
START	Start the stopwatch
STOP	Pause/Stop the stopwatch
STR--STP	Start or stop the stopwatch
TAREFN	Set the function key or digital input to tare the display value
TARE	Tare the display value
RST TARE	Reset the display value
HOLD FN	Set the function key or digital input to hold an output
HOLDOUT	Hold all outputs
HLDUNHLD	Hold or un-hold all outputs
OC 1+2	Hold/un-hold open collector outputs
RLY 1+2	Hold/un-hold relay outputs
mAOUT	Hold/un-hold 4-20 mA output
HOLD	Hold selected output
HLDUNHLD	Hold or un-hold selected output
DISABLE	Disable the function key or digital input
RST FN	Set the function key or digital input to reset a value
RESET	Reset min, max, or max/min PV value
R MINMAX	Reset max and min PV value

PD6600 Series Loop Leader Loop-Powered Process Meters

METERVIEW XL PROGRAMMING SOFTWARE

Free, PC-based, MeterView XL software that connects to the meter via a micro USB cable is available for programming and setup of the meters. This software greatly simplifies the programming process and also allows the user to save configuration files for later use. The meter will also be powered by the USB connection so no additional power is needed during programming.

For more information visit
www.predig.com/meterviewxl



WARNING

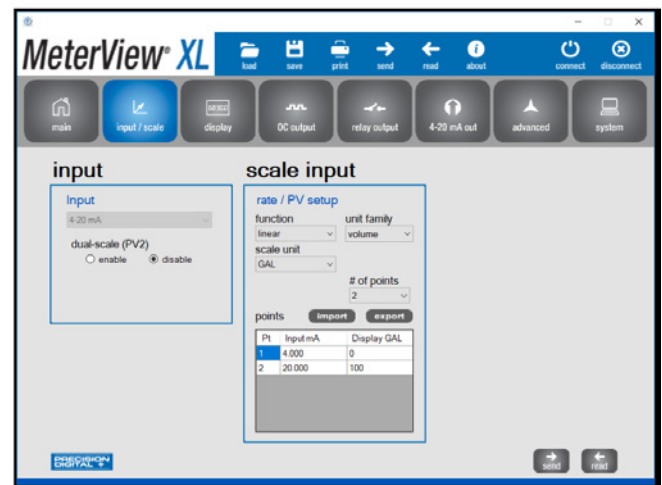
- The meter should only be connected to a computer while it is located in a safe area.

Main Screen

The main screen displays an image of the connected meter and includes various information about this meter, such as model number, readings, and status.

Input/Scale

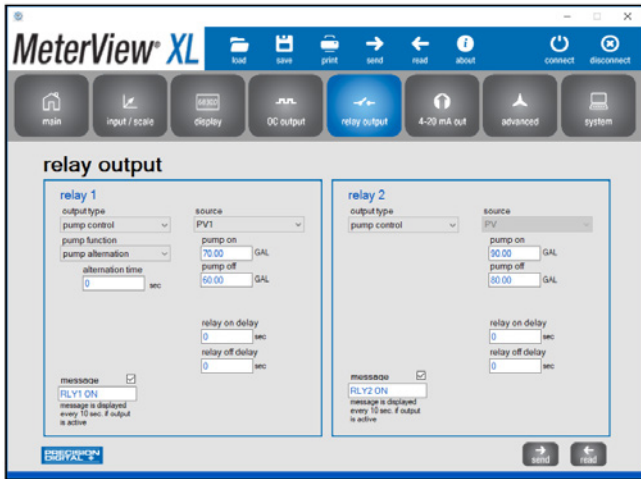
The Input/Scale window is used to set the input, scale the input, and enable/disable the dual-scale feature.



PD6600 Series Loop Leader Loop-Powered Process Meters

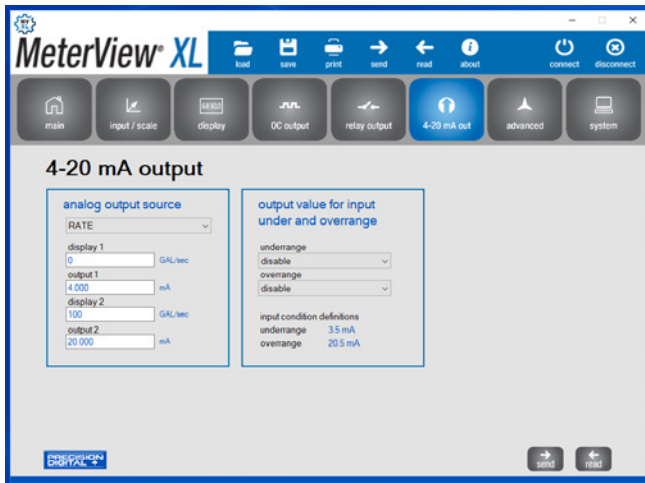
Relay Output

The Relay Output window is used to assign a specific task to the 2 relays such as alarm, sample, timer, stopwatch, or off. A custom message that flashes every 10 seconds can also be added.



4-20 mA Output

The 4-20 mA Output window is used to program the isolated 4-20 mA output's source, range, and under and over range values.



Data Logging

MeterView XL software, when connected to the meter, can generate a log file such as the following example.

Date & Time	PV1	units	PV1 percent	units
2/22/2021 12:31	0.017	FEET	0.43	%
2/22/2021 12:32	0.125	FEET	3.13	%
2/22/2021 12:32	0.231	FEET	5.78	%
2/22/2021 12:32	0.34	FEET	8.51	%
2/22/2021 12:32	0.446	FEET	11.15	%
2/22/2021 12:33	0.552	FEET	13.8	%
2/22/2021 12:33	0.659	FEET	16.47	%
2/22/2021 12:33	0.765	FEET	19.12	%
2/22/2021 12:33	0.871	FEET	21.78	%
2/22/2021 12:34	0.98	FEET	24.5	%
2/22/2021 12:34	1.086	FEET	27.14	%
2/22/2021 12:34	1.192	FEET	29.8	%
2/22/2021 12:35	1.299	FEET	32.48	%
2/22/2021 12:35	1.406	FEET	35.14	%
2/22/2021 12:35	1.51	FEET	37.76	%
2/22/2021 12:35	1.616	FEET	40.41	%
2/22/2021 12:36	1.726	FEET	43.15	%
2/22/2021 12:36	1.83	FEET	45.76	%
2/22/2021 12:36	1.937	FEET	48.42	%
2/22/2021 12:36	2.042	FEET	51.05	%
2/22/2021 12:37	2.148	FEET	53.71	%
2/22/2021 12:37	2.257	FEET	56.43	%
2/22/2021 12:37	2.364	FEET	59.1	%
2/22/2021 12:38	2.47	FEET	61.75	%
2/22/2021 12:38	2.579	FEET	64.48	%
2/22/2021 12:38	2.681	FEET	67.03	%
2/22/2021 12:38	2.788	FEET	69.71	%

Configuration Files

A configuration file can be generated with or without a meter connected to the PC. This makes it possible to prepare meter configurations prior to having the meter in hand. Meter configurations can be saved and re-loaded into other meters. Meter configurations can also be printed.

ACCESSORIES

Plastic Control Stations

The PDA2360 series of plastic control stations provide a convenient way to remotely control devices. The Loop Leader's digital input can be wired to any of the following control stations to perform a single task.

Model	Description
PDA2360-E	Emergency Button
PDA2361-A	Ack Button
PDA2361-B	Blank Button
PDA2361-R	Reset Button
PDA2361-T	Tare Button
PDA2361-S	Stop Button
PDA2361-Q	Silence Button

Notes:

- Control stations can be connected directly to the meter's Digital Input terminals labeled DI+ and DI-.



PDA2360-E



PDA2361-A



PDA2361-B



PDA2361-R



PDA2361-T



PDA2361-S



PDA2361-Q

Signal Splitter & Conditioner Accessories



The PD659 series includes DIN mountable models for signal isolation, splitting and conditioning of 4-20 mA and 0-10 VDC signals.

Model	Description
PD659-1MA-1MA	Signal Isolator with One 4-20 mA Input and One 4-20 mA Output
PD659-1MA-2MA	Signal Splitter with One 4-20 mA Input and Two 4-20 mA Outputs
PD659-1V-1MA	Signal Conditioner with One 0-10 VDC Input and One 4-20 mA Output
PD659-1MA-1V	Signal Conditioner with One 4-20 mA Input and One 0-10 VDC Output

⚠ WARNING

- These accessories do not carry hazardous area approvals and are thus not suitable for location in hazardous areas. The use of additional protective devices may allow them to be installed in a safe area and connected to a device in a hazardous area. User should consult a professional engineer to determine suitability of these products for their specific application.

PD6600 Series Loop Leader Loop-Powered Process Meters

PD9501 Multi-Function Calibrator



This PD9501 Multi-Function Calibrator has a variety of signal measurement and output functions, including voltage, current, thermocouple, and RTD.

Model	Description
PD9501	Multi-Function Calibrator

PD9502 Low-Cost Signal Generator



The PD9502 is a low-cost, compact, simple to use 4-20 mA or 0-10 VDC signal generator. It can easily be set for 0-20 mA, 4-20 mA, 0-10 V or 2-10 V ranges. Signal adjustment is made with a one-turn knob. A 15-27 VDC wall plug is provided with the instrument. Optional USB power bank is available.

Model	Description
PD9502	Low-Cost Signal Generator

NEMA 4 & 4X FIELD ENCLOSURES

Precision Digital offers a variety of rugged enclosures that provide a high degree of protection against harsh operating environments. Thermoplastic and stainless steel NEMA 4X, and painted steel NEMA 4 enclosures for up to 10 Loop Leader meters are available.



Need help selecting the right enclosure?
www.predig.com/esu



Download free 3-D CAD files of these enclosures to simplify your drawings!

predig.com/documentation-cad

⚠ WARNING

- These accessories do not carry hazardous area approvals and are thus not suitable for location in hazardous areas. The use of additional protective devices may allow them to be installed in a safe area and connected to a device in a hazardous area. User should consult a professional engineer to determine suitability of these products for their specific application.

PD6600 Series Loop Leader Loop-Powered Process Meters

LIGHT / HORN & BUTTON ACCESSORY

Loop Leader Meter in a PDA2301 Enclosure with MOD-LH Light / Horn and Button.
Enclosure & MOD-LH Sold Separately. Assembly Required.



An external power supply must be used such as the PDA1024-01 to power up the Light / Horn.



Each Light / Horn accessory comes with 9 labels for the button.

Overview

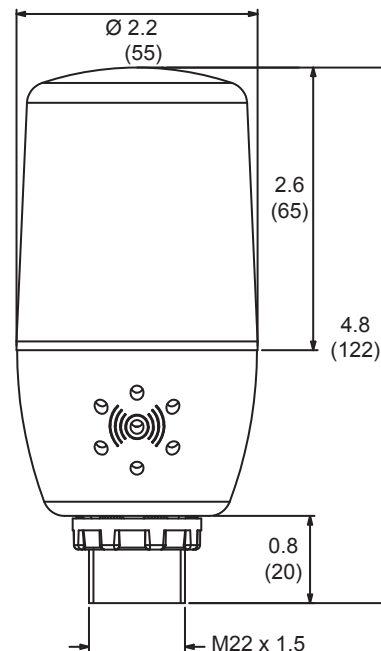
Precision Digital offers a wide variety of NEMA 4 and NEMA 4X enclosures that can be equipped with MOD-LH Light / Horn and Button. When MOD-LH is ordered, the accompanying enclosure on the order comes with the holes pre-drilled for the Light / Horn and the Button and the user performs the mounting and wiring. Meter and enclosure are sold separately. The Light / Horn and the Reset Button can also be ordered as separate items and the user performs all hole-drilling, mounting and wiring as desired. The light and horn can be controlled independently of each other via separate relays on the Loop Leader meter; and since the meter's relays can be reset in a variety of ways, there are several ways the Light / Horn option can operate. For instance, the horn can be programmed to silence at any time via the Button or a function key on the front panel, and light to reset automatically when the alarm clears as the following table illustrates:

Relay #	Connected to	Default Reset Mode
1	Flashing Light ⁽¹⁾	Auto reset
2	Horn	Silence with Reset Button at any time

1. Light can be wired to flash or stay steady on.

Dimensions

Units: Inches (mm)



WARNING

- These accessories do not carry hazardous area approvals and are thus not suitable for location in hazardous areas. The use of additional protective devices may allow them to be installed in a safe area and connected to a device in a hazardous area. User should consult a professional engineer to determine suitability of these products for their specific application.

PD6600 Series Loop Leader Loop-Powered Process Meters

24 VDC Transmitter Power Supply

The [PDA1024-01](#) 24 VDC power supply can be used for a variety of functions like powering 4-20 mA transmitters and the light/horn accessory. It can be mounted on a [PDA1002](#) DIN rail.

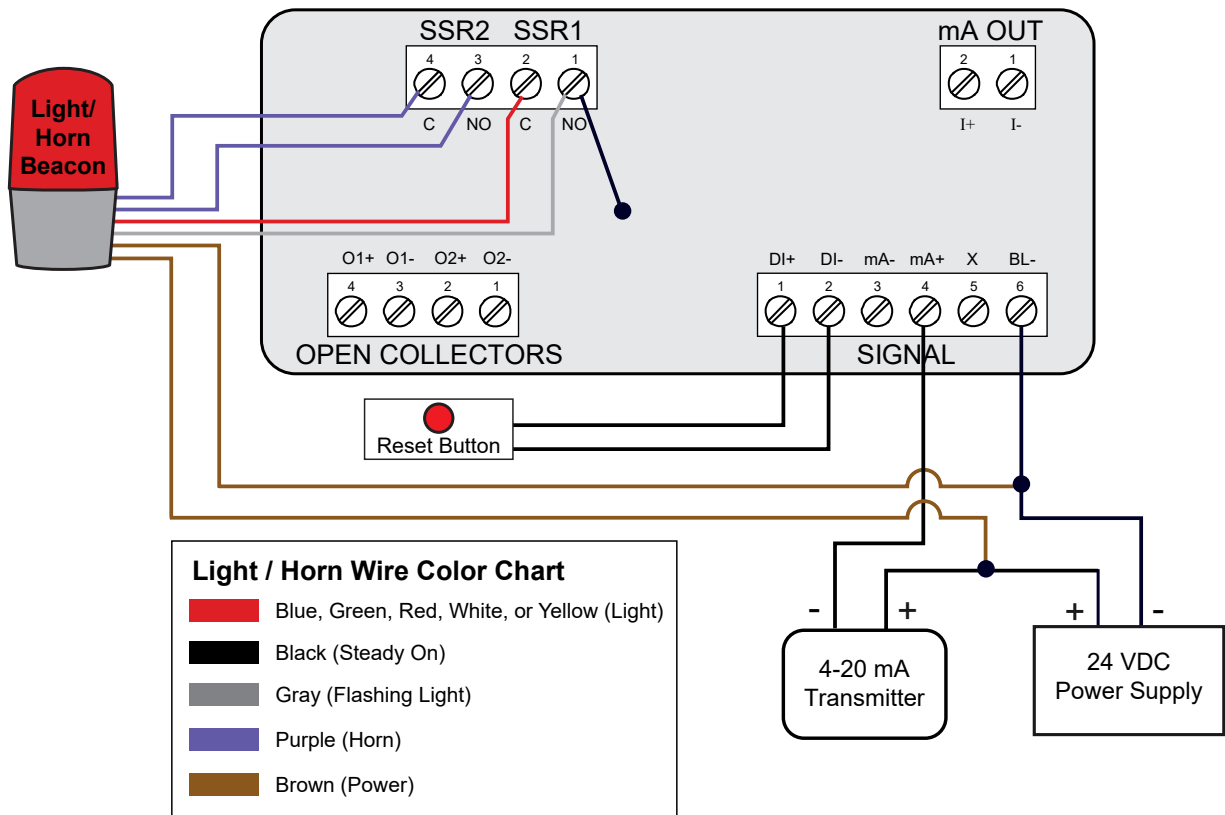


Specifications

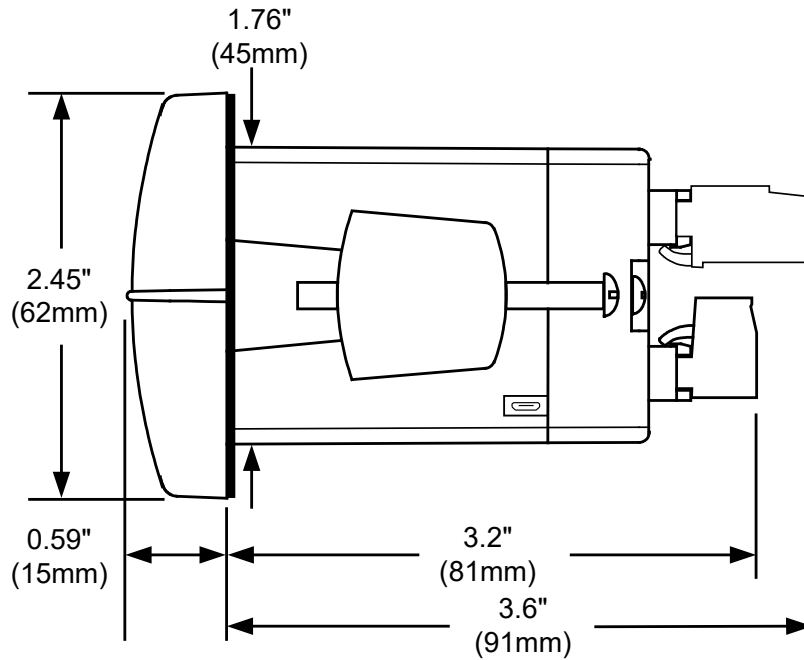
Input Voltage	85-264 VAC; 120-370 VDC
Output Voltage	21.6-29 VDC; 1.5 A rated current.
Input Frequency	47-63 Hz
AC Current	115 VAC: 0.88 A; 230 VAC: 0.48 A
Connections	Screw terminals
Overload Protection	105-160% rated output power. Constant current limiting, recovers automatically after fault condition is removed
Operating Temperature	-30 to 60°C (-22 to 140°F)
Vibration	10-500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes
Safety Standards	UL 508 Listed and UL Recognized Component
Dimensions	1.40" x 3.50" x 2.10" (35 mm x 90 mm x 54.5 mm) (W x H x D)
Warranty	1 year parts & labor

Wiring Connections for MOD-LH Models

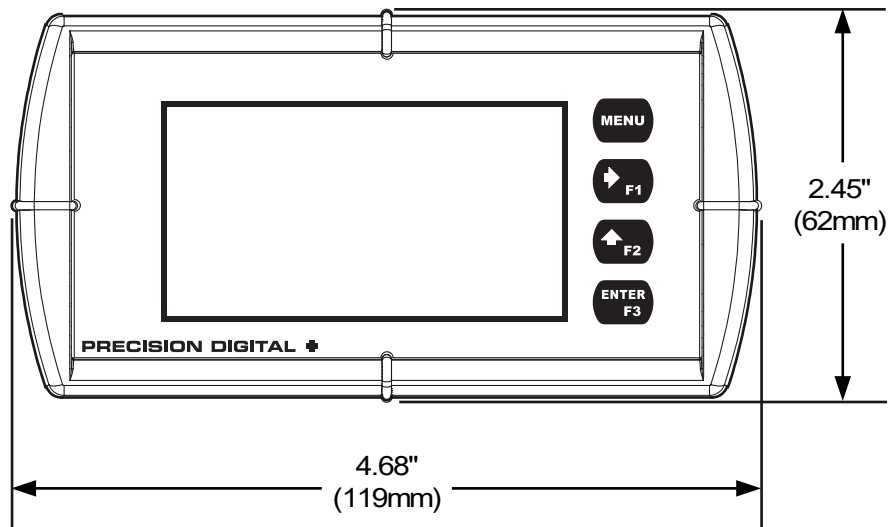
The Light / Horn cannot be powered by the 4-20 mA loop. To use the Light / Horn an external power supply must be used such as the [PDA1024-01](#) as the following diagram illustrates.



DIMENSIONS



Meter Dimensions - Side View



Meter Dimensions - Front View

Notes:

1. Panel cutout required: 1.772" x 3.622" (45 mm x 92 mm)
2. Panel thickness: 0.040 - 0.250" (1.0 mm - 6.4 mm)
3. Mounting brackets lock in place for easy mounting
4. Clearance: Allow 6" (152 mm) behind the panel



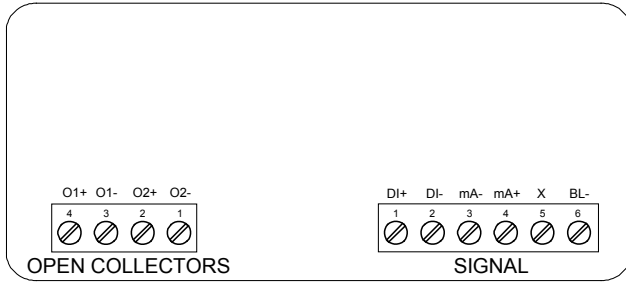
Download free 3-D CAD files of these instruments to simplify your drawings!

predig.com/documentation-cad

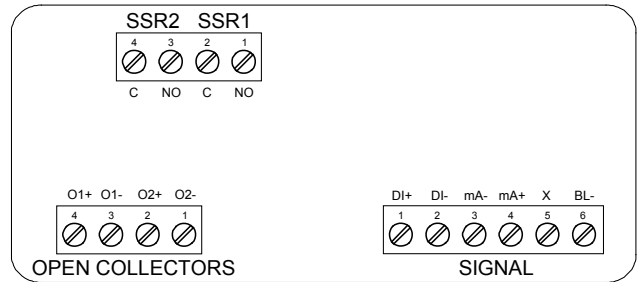
PD6600 Series Loop Leader Loop-Powered Process Meters

CONNECTIONS

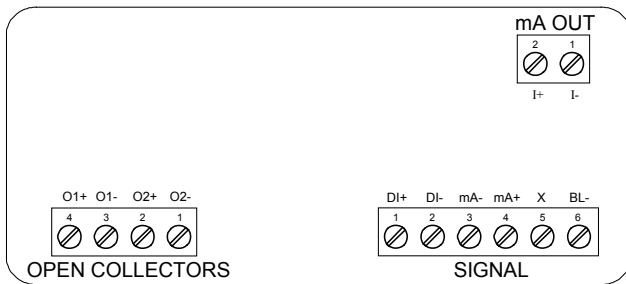
Connectors Labeling



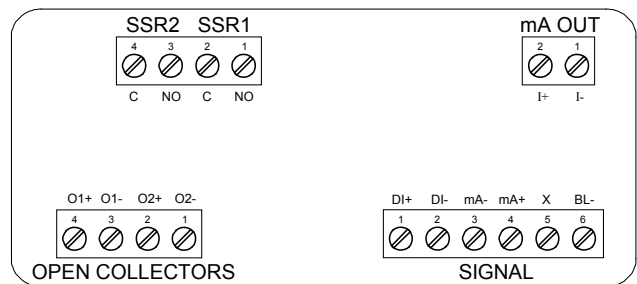
-LNN Option



-L2N Option

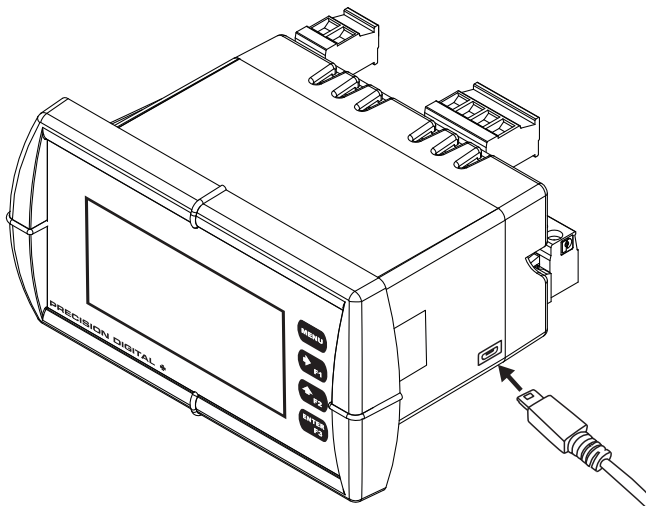


-L3N Option



-L5N Option

USB Connection Location



USB cable plugs into side of meter

PD6600 Series Loop Leader Loop-Powered Process Meters

WIRING DIAGRAMS

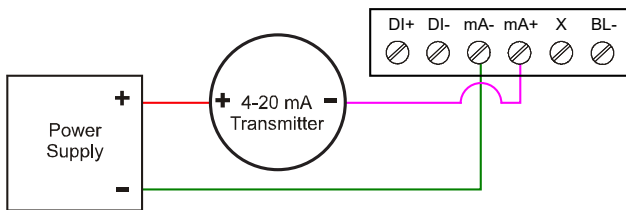
For existing applications, one of the great benefits of loop-powered meters is that they get their power directly from the 4-20 mA loop and thus require no additional wiring. All a user has to do is break the existing loop and wire in the meter.

⚠ WARNING

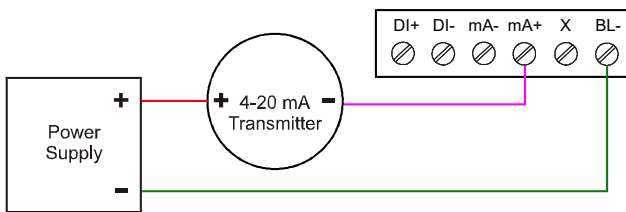
- See Control Drawing LIM6600-2 for information on hazardous area wiring at www.predig.com/PD6606

Safe Area Input Loop (4-20 mA) Connections

The following figures show a 4-20 mA loop connected to the meter. The first figure shows the connection without the backlight and the second shows the connection with the backlight. The meter is powered by the 4-20 mA current loop.



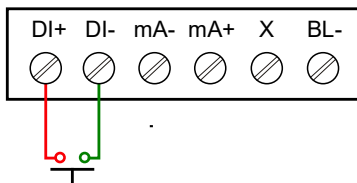
4-20 mA Input Connection without Backlight



4-20 mA Input Connection with Backlight

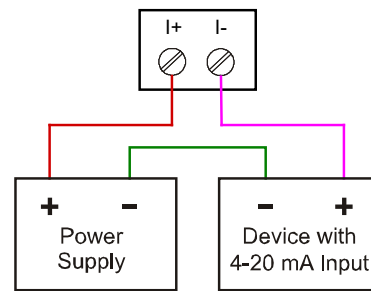
Safe Area Digital Input Connections

A digital input is standard on the meter. This digital input is connected with a normally open contact across DI+ and DI-, or with an active low signal applied to DI+ and DI-.



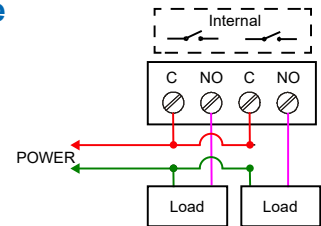
Safe Area 4-20 mA Output Connections

Connections for the 4-20 mA transmitter output are made to the connector terminals labeled mA OUT. The 4-20 mA output must be powered from an external power supply.



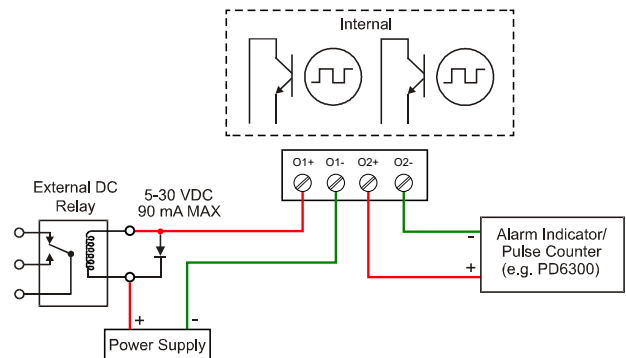
Safe Area Solid-State Relay Connections

Relay connections are made to a four-terminal connector. Each relay's C terminal is common only to the normally open (NO) contact of the corresponding relay.



Safe Area Open Collector Outputs

Open collector output 1 and 2 connections are made to terminals labeled O1+ and O1-, and O2+ and O2-. Connect the alarm or pulse input device as shown below.



PD6600 Series Loop Leader Loop-Powered Process Meters

SPECIFICATIONS

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

Display

PD6602/4/6/8	Dual-line LCD with backlight. Both lines 14-segment alphanumeric. Top: 0.7" (17.8 mm) 5 digits Bottom: 0.4" (10.2 mm) 8 characters Display may be programmed to turn red and flash a user-defined message on alarm condition.
PD6603/7	Dual-line LCD with backlight. Top: 0.7" (17.8 mm), 5 digits 7-segment, FT-IN & fractions. Bottom: 0.4" (10.2 mm), 8 alphanumeric 14-segment characters. Display may be programmed to turn red and flash a user-defined message on alarm condition.
Top Display	PD6602/4/6/8: 5 digits (-9999 to 99999) or 5 characters (all capital & most lower-case letters) PD6603/7: FT - IN/*: Automatically reducing fractions to lowest denominator *FT-IN/16, FT-IN/8, FT-IN/4, FT-IN/2, FT-IN -99FT 11IN 15/16 to 999FT 11IN 15/16
Bottom Display	8 digits (-9,999,999 to 99,999,999; separated by commas) or 8 characters (all capital & most lower-case letters)
Backlight	Powered by 4-20 mA loop. Intensity varies with signal level.
Bargraph	20 segments, numeric percent indication at top (PD6603/7 & PD6604/8 only)
Decimal Point	Up to four decimal places on top display and up to seven decimal places on bottom display
Commas	Commas to indicate 1000s (e.g. 88,987,628) on bottom display
Dual-Scale Feature	The input can be displayed in different scales on the top and bottom displays. For instance, the top display could display the input in height and the bottom display could display that same input in volume.
Alarm Indication	Programmable: red backlight, flashing display, alarm symbol (!) (not available on bargraph models), bargraph segment flashes on alarm.
Alarm Message	Programmable: 8 characters maximum; displayed every 10 sec for 1 sec on bottom display. May be turned off.
Display Update Rate	Ambient > -10°C: 1 Update/Second Ambient = -20°C: 1 Update/2 Seconds From -20°C to -40°C the update rate slows down 1 second for every -2°C (e.g. at -24°C, 1 update/4 seconds).
Overrange	PD6602/4/6/8: Top: 99999 PD6603/7: Top: 999 11 15/16 Bottom: 99,999,999 (flashing)
Underrange	PD6602/4/6/8: Top: -9999 PD6603/7: Top -99 11 15/16 Bottom: -9,999,999 (flashing)

General

Programming Method	Front panel & Free PC-based USB programming software
Enclosure & Materials	Enclosure: 1/8 DIN, IP65, NEMA 4X front panel, high impact plastic, NORYL® polyphenylene ether & polystyrene blend (PPE PS) resin, UL 94V-0, Color: gray Gasket: Silicone Rubber Faceplate: LEXAN® polycarbonate (PC) Film Buttons: Silicone rubber
Environmental	Operating temperature range: -40 to 75°C (-40 to 167°F) for safe area products -40 to 70°C (-40 to 158°F) for haz area products Storage temperature range: -40 to 85°C (-40 to 185°F) Relative humidity: 0 to 90% non-condensing; Printed circuit boards are conformally coated.
Noise Filter	Averages the input signal over a period of time between 1 and 16 seconds to dampen the effects of a noisy signal that causes a jumpy display.
Filter Bypass	0.0 to 99.9% of full scale. Input signal changes greater than bypass value are displayed immediately.
Recalibration	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.
Tare	Tare function zeros out the meter to accommodate for weight of a container. Tare function can be assigned to a function key or a digital input.
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.
Normal Mode Rejection	64 dB at 50/60 Hz
Connections	Removable screw terminals accept 12 to 22 AWG wire
Tightening Torque	Screw terminal connectors: 4.5 lb-in (0.5 Nm) Mounting screws: 8.0 lb-in max. (0.9 Nm)
Overall Dimensions	4.68" x 2.45" x 3.79" (119 mm x 62 mm x 96 mm) (W x H x D)
Weight	8.7 oz (247g) with option board
Warranty	3 years parts and labor. See Warranty Information and Terms & Conditions on www.predig.com for complete details.

PD6600 Series Loop Leader Loop-Powered Process Meters

Input

Input	4-20 mA
Accuracy	±0.02% of span ±1 count PD6602/4 & PD6604/8: Square root and programmable exponent: 10-100% FS
Voltage Drop	Without Backlight: 1.5 V maximum, With backlight: 4.5 V maximum
Equivalent Resistance	With backlight off: 75 Ω @ 20 mA With backlight on: 225 Ω @ 20 mA
Input Overload	Over current protection to 1 A maximum Over voltage protection to 30 VDC max (between mA+ and mA-/BL-)
Temperature Drift	25 PPM/°C from -40 to 75°C ambient
Function	PD6602/6 & PD6604/8: PV1: Linear (2-32 points), square root, or programmable exponent PV2: Linear (2-32 points) or Round Horizontal Tank PD6603/7: PV1: Linear (2-32 points) PV2: Linear (2-32 points) or Round Horizontal Tank
Low-Flow / Low-Height Cutoff	Point below at which the display always shows zero. PD6602/4/6/8: 0.1 to 999,999 or disable. PD6603/7: 1/16 to 999FT 11IN 15/16 or disable.
HART Transparency	The meter does not interfere with existing HART communications; it displays the 4-20 mA primary variable and it allows the HART communications to pass through without interruption. The meter is not affected if a HART communicator is connected to the loop. The meter does not display secondary HART variables.

On-Board Digital Input

Function	Remote operation of front-panel buttons, acknowledge/reset relays, reset max/min values, etc.
Contacts	2.1 VDC on contact. Connect normally open contacts across DI+ and DI-
Logic Levels	Logic High: 2.4 to 30 VDC (max) Logic Low: 0 to 0.9 VDC

MeterView XL

Availability	Free download from www.predig.com
System Requirements	Microsoft® Windows® 7 & 10
Communications	USB 2.0 (Standard USB A to Micro USB B)
Configuration	Configure all parameters on the meter. Configure meters one at a time.
Configuration Files	Generate with or without meter connected; Save to file for later use.
USB Power Connection	Meter is powered by USB connection during programming, if 4-20 mA loop is not connected.

WARNING

- The meter should only be connected to a computer while it is located in a safe area.

Common Open Collector & Relay Specifications

Number	Two open collectors & two relays
High or Low Alarm	User programmable for high or low alarm
Alarm Deadband	0-100% FS, user programmable
Output Assignment	Alarm, Timer, Stopwatch, or Disable
Alarm Output Source	Assign to PV (PV1, PV2) or Digital Input
On & Off Time Delay	0 to 9,999 seconds
Fail-Safe Operation	Independent for each open collector and relay. Fail-safe on, the output is on under normal conditions. Fail-safe off, the output is on under alarm conditions.
Alarm Operation	Automatic, automatic with manual override, latching (manual reset anytime), latching with reset after cleared (manual reset only after alarm has cleared)
Alarm Indication	Programmable: red backlight, flashing display, alarm symbol (!) (not available on bargraph models), bargraph segment flashes on alarm.
Alarm Message	Programmable: 8 characters maximum; displayed every 10 sec for 1 sec on bottom display. May be turned off.
Alarm Acknowledge	Front panel ACK button or external digital input resets output and screen indication.
Auto Initialization	When power is applied to the meter, open collectors and relays will reflect the state of the input to the meter.
Timer Output	One-shot or Continuous Off Time Delay: 1 sec to 99:59:59 (hrs:min:sec) On Time: 1 sec to 99:59:59 (hrs:min:sec)
Stopwatch	Output turns on when started and off when stopped.

Open Collector Outputs

Rating	Isolated open collector, sinking NPN 5-30 VDC @ 150 mA maximum
Output Assignment	Pulse, Alarm, Timer, Stopwatch on/off, or Disable
Pulse Output Source	PV (PV1, PV2) or Test Frequency
Pulse Output Factor	0.000001 to 999,999.9
Pulse Width	0.5 ms @ 1 kHz; 500 ms @ 1 Hz; 50% duty cycle
Pulse Output Frequency	1,000 Hz maximum
Quadrature Pulse Output	Available for Output 2 (90° behind Output 1) 500 Hz maximum
Alarm Output Source	Assign to PV (PV1, PV2) or Digital Input

PD6600 Series Loop Leader Loop-Powered Process Meters

Solid-State Relays

Rating	250 VAC/VDC @ 1 A resistive 75 VA; 250VAC; 0.6 A pilot duty (inductive) – UL Code D300 25 VA; 250VDC; 0.6 A pilot duty (inductive) – UL Code R300
Noise Suppression	Metal oxide varistors across outputs
Relay Assignment	Pump Alternation, Alarm, Timer, Stopwatch on/off, or Disable
Alarm Output Source	Assign to PV (PV1, PV2) or Digital Input
Pump Alternation	Relays may be programmed to alternate with each pump cycle with an elapsed time override where the pumps will alternate regardless of level. Pump alternation time can be programmed for 0 to 999:59 (hrs:min)
Relay (Pump) Runtime	Meter will keep track of how long each relay (pump) has operated and display this information
Relay (Pump) Cycles	Meter will keep track of how many times the relays (pumps) have cycled and display this information

4-20 mA Transmitter Output

Accuracy	±0.05% FS ±0.001mA
Output Source	PV1, PV2, re-transmit; reverse scaling allowed
Scaling Range	1.00 to 23.0 mA
Disable	High impedance state, less than 1 mA
Calibration	Factory calibrated 4.00 to 20.00 mA
Underrange	1.0 mA, 3.5 mA, or 3.8 mA (If input < 3.5 mA); or Off; user selectable
Overrange	20.5 mA, 20.8 mA, or 23.0 mA (If input > 20.5 mA); or Off; user selectable
Isolation	500 V input-to-output
Temperature Drift	0.5 µA/°C max from -40 to 75°C ambient
External Loop Power Supply	7.0 VDC to 30.0 VDC maximum
Output Loop Resistance	10-750 Ω @ 24 VDC; 10-1100 Ω @ 30 VDC

General Compliance Information

Electromagnetic Compatibility


EMC Emissions	<ul style="list-style-type: none"> CFR 47 FCC Part 15 Subpart B Class A emissions requirements (USA) AS/NZS CISPR 11 Class A ISM emissions requirements (Australia) EN 55011 Group 1 Class A ISM emissions requirements (EU) ICES-001 Issue 4 ISM emissions requirements (Canada)
EMC Emissions and Immunity	EN 61326-1 EMC requirements for Electrical equipment for measurement, control, and laboratory use – industrial use

Compliance Information (Select Models)

Safety

UL & C-UL Listed	USA & Canada UL 61010-1 CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition
UL File Number	E160849
Front Panel	UL Type 4X, NEMA 4X, IP65; panel gasket provided
Low Voltage Directive	IEC 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use.
Additional Standards	UL 50E

Hazardous Area Approvals

ATEX	 II 1G Ex ia IIC T4 Ga Ta = -40°C to +70°C Certificate number: CML 17ATEX2015X
IECEX	Ex ia IIC T4 Ga Tamb = -40°C to +70°C Certificate number: IECEx CML 17.0008X
UL & C-UL	Listed as Intrinsically Safe and Nonincendive: Class I, Division 1, Groups A, B, C and D T4 Class I, Division 2, Groups A, B, C and D T4 Ex ia IIC T4 (Canada); Class I Zone 0, Zone 1, AEx ia IIC T4 (U.S.) Class I Zone 2, Group IIC T4 (U.S.) PROCESS CONTROL EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS 61010 Listed for Electrical Safety and Type 4X Environmental: Standards for Safety: IEC 61010-1:2010 (3rd Edition); UL 61010-1, 3rd Edition; CAN/CSA-C22.2 No. 61010-1-12, 3rd Edition; Additional Standards: UL 50E

PD6600 Series Loop Leader Loop-Powered Process Meters

ORDERING INFORMATION

General Purpose Instruments

PD6602 Standard Decimal Models	
Model	Description
PD6602-LNN	Loop-Powered, General Purpose, No Options
PD6602-L2N	Loop-Powered, General Purpose, Two Solid-State Relays
PD6602-L3N	Loop-Powered, General Purpose, 4-20 mA Analog Output
PD6602-L5N	Loop-Powered, General Purpose, Two Solid-State Relays and 4-20 mA Analog Output

PD6603 Feet & Inches Models	
Model	Description
PD6603-LNN	Loop-Powered, General Purpose, Feet & Inches, No Options
PD6603-L2N	Loop-Powered, General Purpose, Feet & Inches, Two Solid-State Relays
PD6603-L3N	Loop-Powered, General Purpose, Feet & Inches, 4-20 mA Analog Output
PD6603-L5N	Loop-Powered, General Purpose, Feet & Inches, Two Solid-State Relays and 4-20 mA Analog Output

PD6604 Decimal with Bargraph Models	
Model	Description
PD6604-LNN	Loop-Powered, General Purpose, Bargraph, No Options
PD6604-L2N	Loop-Powered, General Purpose, Bargraph, Two Solid-State Relays
PD6604-L3N	Loop-Powered, General Purpose, Bargraph, 4-20 mA Analog Output
PD6604-L5N	Loop-Powered, General Purpose, Bargraph, Two Solid-State Relays and 4-20 mA Analog Output

Hazardous Area Instruments

PD6606 Standard Decimal Models	
Model	Description
PD6606-LNN	Loop-Powered, Hazardous Area, No Options
PD6606-L2N	Loop-Powered, Hazardous Area, Two Solid-State Relays
PD6606-L3N	Loop-Powered, Hazardous Area, 4-20 mA Analog Output
PD6606-L5N	Loop-Powered, Hazardous Area, Two Solid-State Relays and 4-20 mA Analog Output

PD6607 Feet & Inches Models	
Model	Description
PD6607-LNN	Loop-Powered, Hazardous Area, Feet & Inches, No Options
PD6607-L2N	Loop-Powered, Hazardous Area, Feet & Inches, Two Solid-State Relays
PD6607-L3N	Loop-Powered, Hazardous Area, Feet & Inches, 4-20 mA Analog Output
PD6607-L5N	Loop-Powered, Hazardous Area, Feet & Inches, Two Solid-State Relays and 4-20 mA Analog Output

PD6608 Decimal with Bargraph Models	
Model	Description
PD6608-LNN	Loop-Powered, Hazardous Area, Bargraph, No Options
PD6608-L2N	Loop-Powered, Hazardous Area, Bargraph, Two Solid-State Relays
PD6608-L3N	Loop-Powered, Hazardous Area, Bargraph, 4-20 mA Analog Output
PD6608-L5N	Loop-Powered, Hazardous Area, Bargraph, Two Solid-State Relays and 4-20 mA Analog Output

Notes:

1. All models come with two open collector outputs standard.
2. General Purpose Instruments are CE marked only.
3. Hazardous area instruments are UL Listed for hazardous areas and general electrical safety. They are also ATEX and IECEx certified as intrinsically safe.

PD6600 Series Loop Leader Loop-Powered Process Meters

Accessories

General Accessories	
Model	Description
PD659-1MA-1MA	Signal Isolator with One 4-20 mA Input and One 4-20 mA Output
PD659-1MA-2MA	Signal Splitter with One 4-20 mA Input and Two 4-20 mA Outputs
PD659-1V-1MA	Signal Conditioner with One 0-10 VDC Input and One 4-20 mA Output
PD659-1MA-1V	Signal Conditioner with One 4-20 mA Input and One 0-10 VDC Output
PD9501	Multi-Function Calibrator
PD9502	Low-Cost Signal Generator
PDA1024-01	24 VDC Power Supply for DIN Rail

Enclosures	
Series	Description
PDA2300	NEMA 4X Plastic Enclosures
PDA2600	Stainless Steel NEMA 4X Enclosures
PDA2700	Painted Steel NEMA 4 Enclosures
PDA2800	Low-Cost Plastic NEMA 4X Enclosures
PDA3400	Internal Mount NEMA 4X Plastic Enclosures

PDA2360 Series Control Stations	
Model	Description
PDA2360-E	Emergency Button
PDA2361-A	Ack Button
PDA2361-B	Blank Button
PDA2361-R	Reset Button
PDA2361-T	Tare Button
PDA2361-S	Stop Button
PDA2361-Q	Silence Button

PDA-BUTTON Momentary Pushbutton	
Model	Description
PDA-BUTTON1R	NEMA 4X Red Pushbutton
PDA-BUTTON1G	NEMA 4X Green Pushbutton
PDA-BUTTON1B	NEMA 4X Black Pushbutton

Light/Horn & Button	
Model	Description
MOD-LHRB1	Red Light / Horn and Reset Button with Holes Drilled in Enclosure ⁽¹⁾
MOD-LHGB1	Green Light / Horn and Reset Button with Holes Drilled in Enclosure ⁽¹⁾
MOD-LHYB1	Yellow Light / Horn and Reset Button with Holes Drilled in Enclosure ⁽¹⁾
MOD-LHBB1	Blue Light / Horn and Reset Button with Holes Drilled in Enclosure ⁽¹⁾
MOD-LHWB1	White Light / Horn and Reset Button with Holes Drilled in Enclosure ⁽¹⁾
MOD-LH5CB1	Light / Horn with User Choice of Red, Green, Yellow, Blue or White Light, Reset Button, and Holes Drilled in Enclosure ⁽¹⁾
MOD-LH3LCB1-RYG	Light / Horn with Red, Yellow, Green Light Layers, Reset Button, and Holes Drilled in Enclosure ⁽¹⁾

Notes

1. This MOD supplies the Light / Horn and Button. The enclosure comes pre-drilled with holes for Light / Horn and Button and the user performs the installation and wiring. Meter and enclosure are sold separately. The Light / Horn hole is in the back left corner of the enclosure and the Button is centered on the cover of the enclosure below the meter about an inch off the bottom of the cover except on the PDA3400 series where it is mounted on the side of the enclosure.
2. Specify PDA-LH model to order the Light / Horn to be mounted by the user in user-drilled hole.
3. Specify PDA-BUTTON1R to order Button to be mounted by the user in user-drilled hole.



Watch the Loop Leader Series Video

Click or scan

Your Local Distributor is:

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WARNING
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

LDS6602_H 08/22