# MeterView XL Programming Software
## Instruction Manual



## For use with the following Flow Rate/Totalizers:

PD6938-HA/ -EX / -IS
Aluminum & Stainless Steel

PD6938-GP
NEMA 4X Plastic

- Free PC-Based USB Programming Software
- Easy Programming of Feature-Packed Product
- USB Connection Provides Power to the Meter During Programming
- Save & Print Configuration Files without Meter Connected
- Micro USB Cable Provided with Meter
- Download the On-Board Data Log via USB or RS-485 Connection
- PC Data Logging for One or Multiple Variables

## PRECISION DIGITAL CORPORATION

233 South Street • Hopkinton MA 01748 USA
Tel (800) 343-1001 • (508) 655-7300
**www.predig.com**

# MeterView XL Programming Software



The easiest and quickest way to program your pulse input rate/totalizers is with the free, PC-based, MeterView XL software. The rate/totalizer connects to the PC with a USB cable that also provides the power to the rate/totalizer during programming. Programming files can be saved for later use.

- Free PC-Based USB Programming Software
- Easy Programming of Feature-Packed Product
- USB Connection Provides Power to the Meter During Programming
- Save & Print Configuration Files without Meter Connected
- Micro USB Cable Provided with Meter
- PC Data Logging for One or Multiple Variables
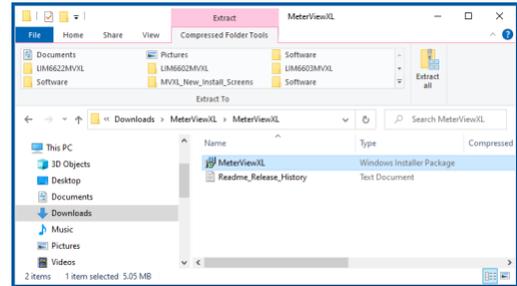
## MeterView XL Software Installation

**⚠ IMPORTANT**

- Please uninstall previous versions of this software prior to downloading, installing, and running the latest version.
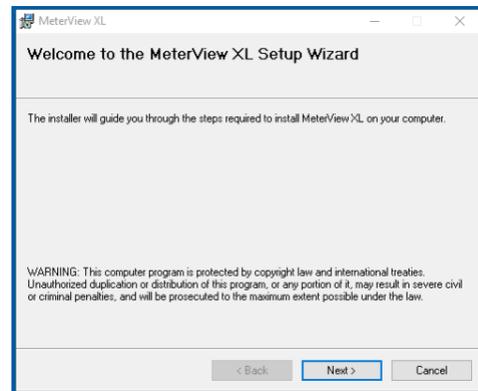
1. Download MeterView XL Installation file to your PC from www.predig.com/meterviewxl

2. Locate the MeterView XL zipped folder on your PC and double-click to extract and open:
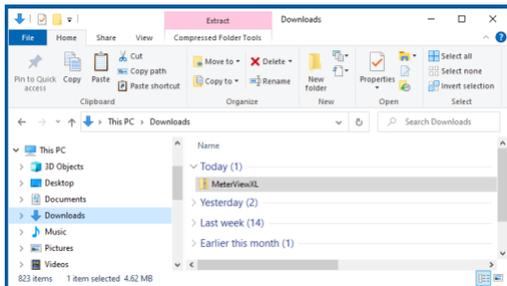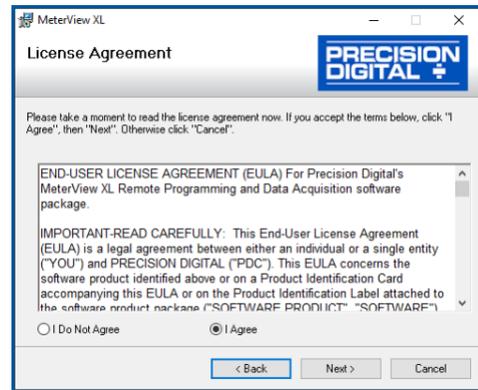


3. Double-click MeterView XL Windows Installer Package file to open:



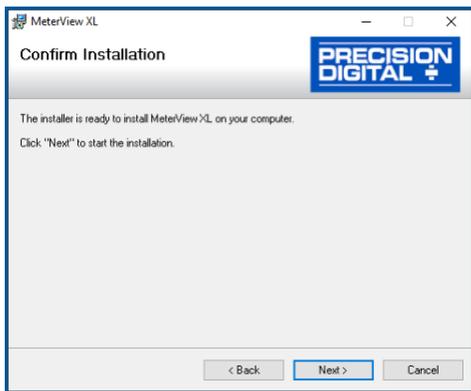4. The MeterView XL Setup Wizard window will appear. Click "Next" to start the installation process:



5. The MeterView XL License Agreement window appears next. Select "I agree" and click "Next" to continue the installation process:
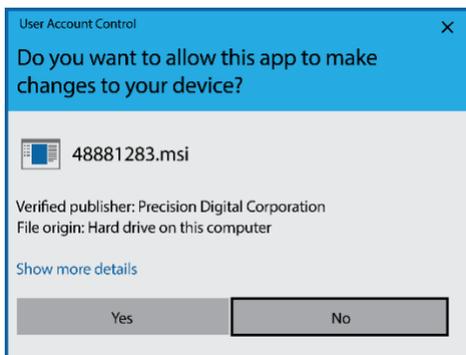
6. Choose the folder location where you would like the software to be installed to and select options for use. Then click "Next" to continue:
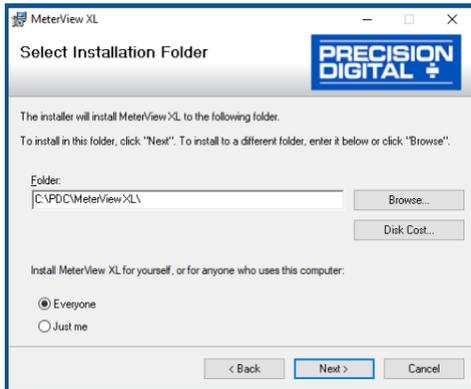


7. Confirmation window will appear. Click "Next" to confirm the installation:



8. The User Account Control message is displayed. Click "Yes" to proceed with the installation:



9. Finally, the Installation Complete window will appear. Click "Close" to exit:
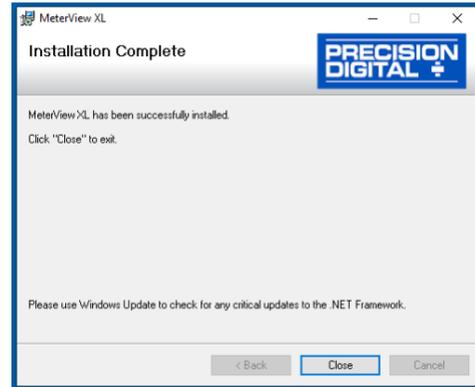


Now you are ready to open the MeterView XL software to begin programming your pulse input rate/totalizer.

## Connecting to the Computer

The rate/totalizer may be connected to any Windows 10 or Windows 11 PC via the provided USB cable by following these steps:

1. Open the MeterView XL software.
2. Connect the rate/totalizer to the PC with the provided USB cable.
3. The software will ask if you would like to read the meter. Click OK.

# Specifications

| | |
|---|---|
| **Availability** | Free download from www.predig.com/meterviewxl |
| **System Requirements** | Microsoft® Windows® 10 & 11 |
| **Communications** | USB 2.0 (Standard USB A to Micro USB B) Cable provided |
| **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** | The meter is powered by the USB connection during programming. There is no need to apply external power. Note: The meter will not be damaged if external power is applied to it during programming. |

⚠ **WARNING**

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

| | |
|---|---|
| **Compatibility** | Programs created for VantageView+ and ProtEX+ can be run on either meter. No other program sharing is permissible. |
| **USB Power Connection** | The meter is powered by the USB connection during programming. There is no need to apply external power. Note: The meter will not be damaged if external power is applied to it during programming. |
| **Data Logging Report** | The on-board data log can be downloaded via the USB or the RS-485 connection. Saved log file as ".csv" file format. |
| **PC Data Logging** | MeterView XL can be used data log directly to a computer connected to the meter via the USB or the RS-485 connection. The user can select what to log and at what interval.<br>• Rate<br>• Total<br>• Grand total<br>• Open collector triggers<br>• Relay triggers<br>• Hold/Unhold outputs |
| **Compatibility** | Programs created for VantageView+ and ProtEX+ can be run on either meter. No other program sharing is permissible. |

# Using MeterView XL Software

## Main Screen

The main screen displays a real-time image of the connected **meter** and includes various information about this **meter**. This information includes max and min values, status of open collectors and relays (if option installed), and value of the input signal and output signal (if option installed). From the main screen the user can also operate the data logging feature and reset the max and min values.

**Main Programming**
Click one of these buttons to navigate to a specific programming screen. The button will turn **blue** signifying the current programming screen.

**Load, Save or Print Meter Configurations**

**Send or Read Meter Settings**

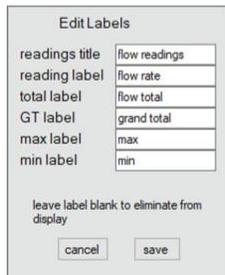**Connect or Disconnect Meter**

**Meter Info**
Shows the current model connected to the PC.

**Readings and Meter Status**
Readings show what the meter is "reading" in labels set by and meaningful to the user. Meter status shows the input and output (if any) signal values, the status of the open collectors and relays (if any), and password setting.
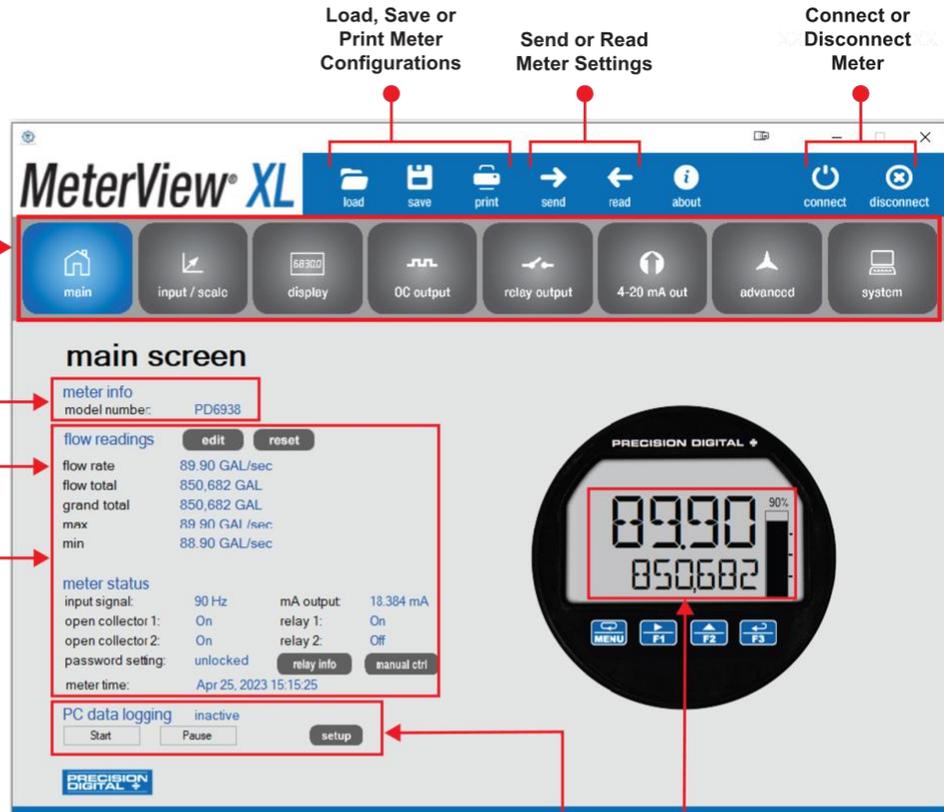


**Edit Labels Button** edit

Click the **Edit** button to enter or edit labels on the Main SW screen.

**Reset Button** reset

Click the **Reset** button to reset the Maximum or Minimum values to zero.

**Relay Info Button** relay info

Click the **Relay Info** button to see the accumulated run time and cycle count of the relays (if relays installed).

**PC Data Logging Buttons** setup
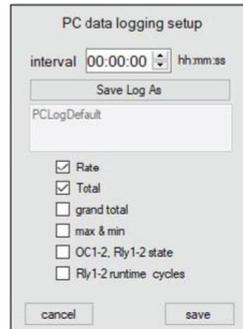
Click the **Setup** button to set the interval time for a PV and save the log file. Click the **start** or **pause** button to control the data logging.

**Meter Display**
Shows the current value being displayed on the connected meter.

## Input / Scale Screen

The input / scale screen is used to configure the input signal and scale it appropriately using the multi-point linearization feature or using the k-factor scaling. The meter can be programmed to display rate and totals, in any available units using the display screen, without having to change the k-factor or the scaling points.

| Function | This Meter |
|---|---|
| Set the input | Active pulse input |
| Low gate (Not visible) | 1 second |
| High gate (Not visible) | 2 seconds |
| Scale rate/PV | 2 points |
| Units | Gallons/minute |
| K-factor | Disabled (Scale points and k-factor are exclusive of each other) |



**Input**
Indicates the input to the meter is active pulse input.

**Scale Input**
These fields are used to select, scale unit, and scaling points for the rate/PV setup.
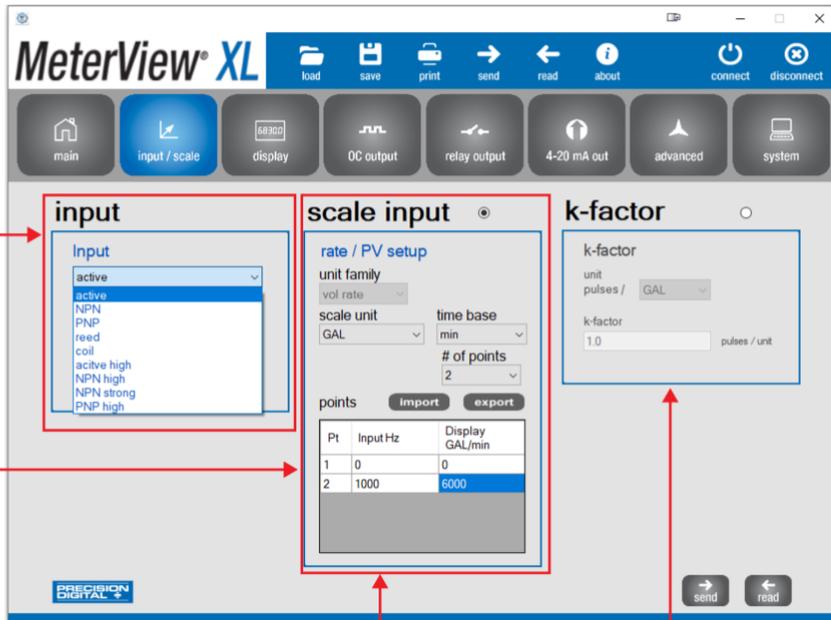
**Unit Family & Scale Unit Menus**
Select from a variety of scale units. The unit family is fixed to volume rate.
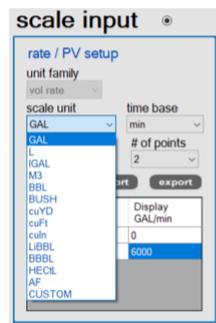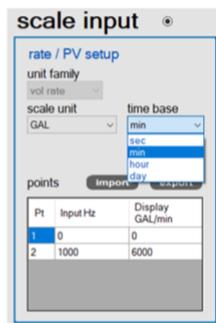
**Time Base Menu**
Select seconds, minutes, hours, or day for the rate.

**Scaling Points / Import and Export**
Select the number of scaling points. Up to 32 points can be entered.
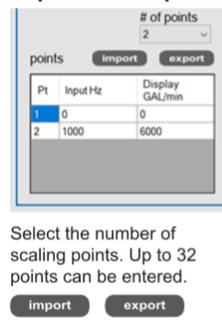
The scaling points can be entered directly into the software or imported from a .csv file. They can also be exported to a .csv file.

**K-Factor**
Select the volume units and enter the k-factor value as specified on the flowmeter.

Click the [send] button at the bottom right of the window to send the new settings to the meter.

The following screen shows the pulse input type, low and high gate, and the k-factor being used.

| Function | This Meter |
|---|---|
| Set the input | Active pulse input |
| Low gate | 1 second |
| High gate | 2 seconds |
| Scale rate/PV | Disabled |
| K-Factor | 1.0 pulses/gallon |
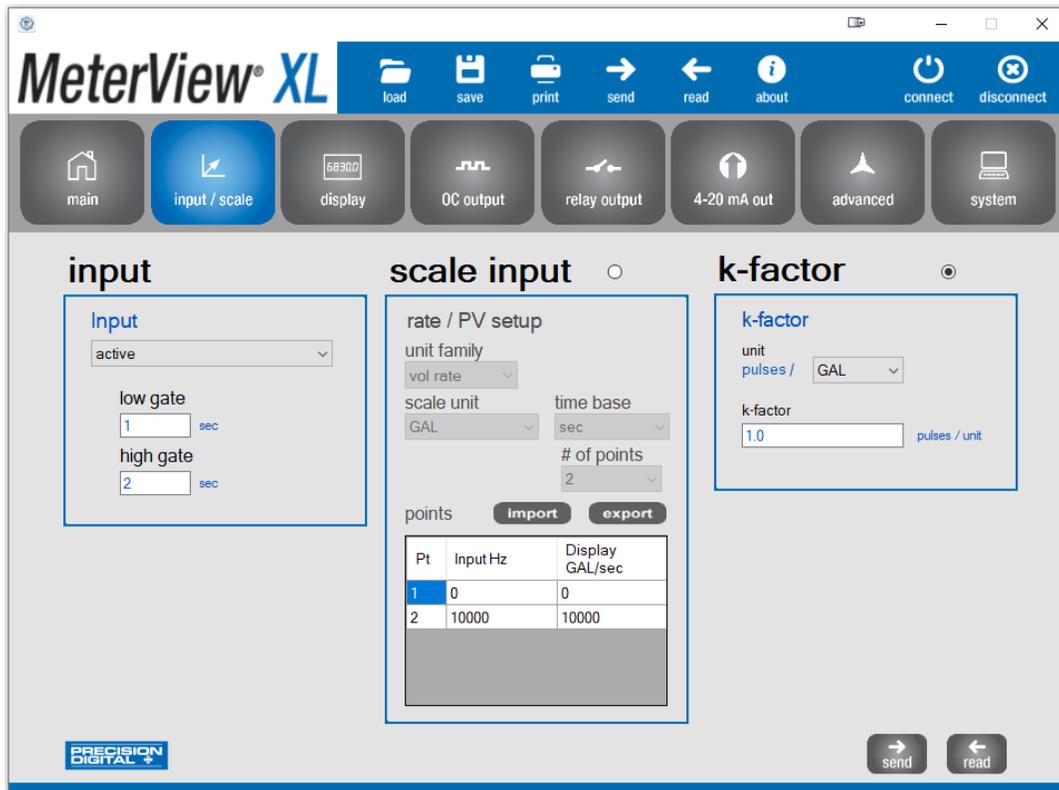
## Display Screen

The display screen is used to change what is displayed on the **meter's top** and **bottom** display lines. If either display lines are set to show units or tag, or to alternate between units, tags, and some other parameter, the tag shown, and the display time may be set in the **tag & units time** section. The **rate, total** and **grand total** sections are used for setting the units and decimal points. The **bargraph** section is used for selecting the source and scaling the bargraph value. The **backlight** section programs the meter to conserve power when it is powered from a battery. The backlight can be programmed to stay on for a certain amount of time after a period of front panel keys inactivity or be turned off entirely. The **LCD section** programs how long the LCD will stay on after a period of front panel keys inactivity.
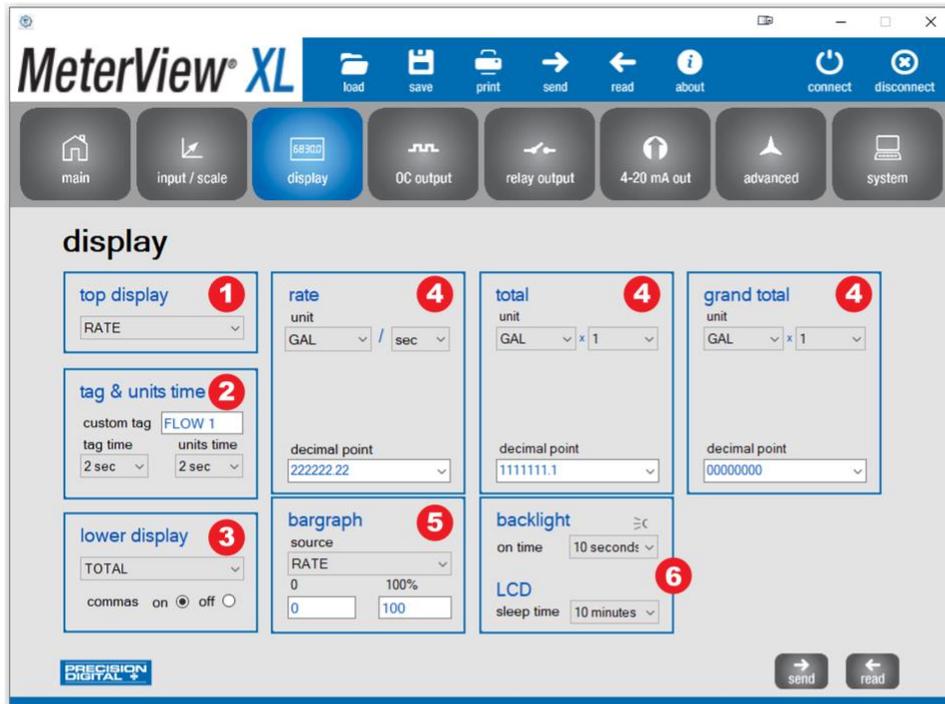


### Toggle Display

The meter's dual-line display can be setup in multiple ways to provide an extremely informative view of the process variable being monitored. See the following example:

**Top Line:** Toggle Flow Rate and Rate Units
**Bottom Line:** Toggle Total Flow and Total Units

### ① Top Display

Select what will be shown on the top line of the meter's display.
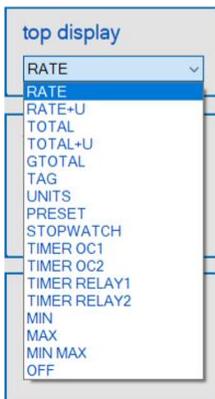
### ② Tag & Units Time

Enter name for custom tag and set display time for tag and units.
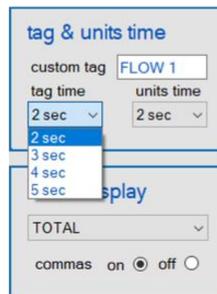
### ③ Bottom Display

Select what will be shown on the bottom line of the meter's display. Activate "commas" to make it easier to read large numbers like 78,765,249.
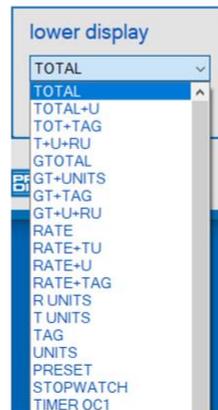
### ④ Rate, Total & Grand Total

Set units/sec, minute, hour, or day and set decimal point for rate, total, and grand total.
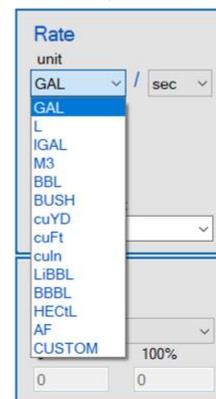
### ⑤ Bargraph

Select the source and scaling for the bargraph.
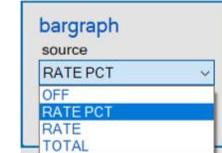
### ⑥ Backlight / LCD

Select a specific on time for the backlight and a specific sleep time for the LCD.
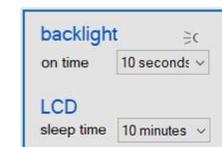
Click the send button at the bottom right of the window to send new settings to the meter.

## Open Collector Output Screen

The meter comes with two open collectors as a standard feature. The open collector output screen is used to program the open collector outputs for a specific output type **(pulse**, **alarm**, **timer**, **stopwatch)** or set to be **disabled**. The two open collectors may be programmed independently using the **output 1** and **output 2** sections. The following example shows the open collectors programmed for two **high alarms**. In addition, when an alarm occurs, the display is programed to turn red, start to flash and display an alarm message.
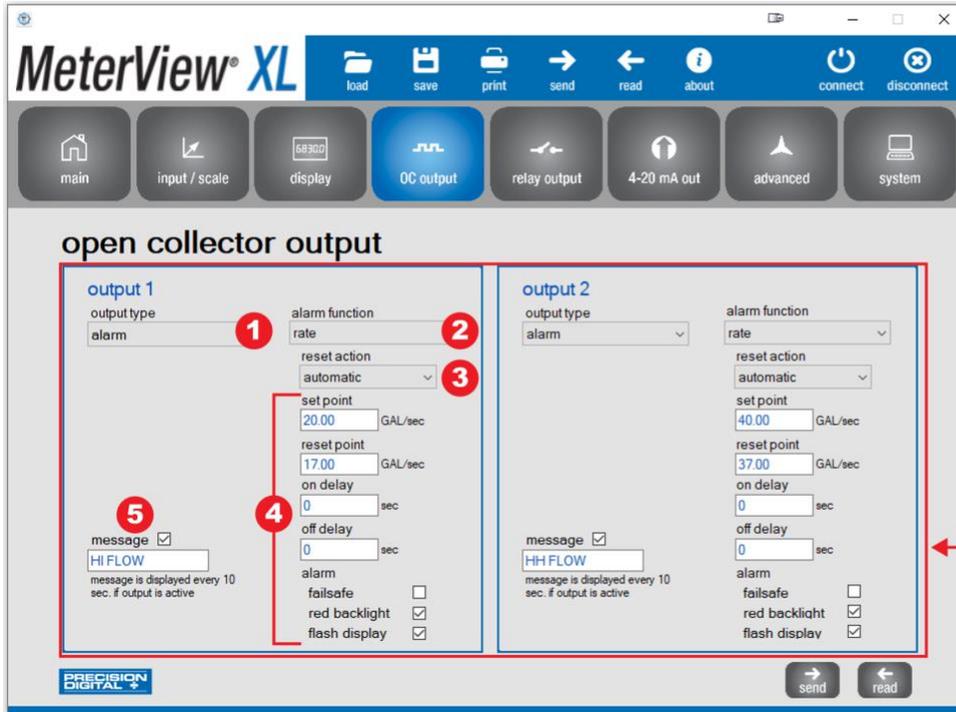


*Meter in the non-alarm condition.*

**Alarm Indicated by Flashing Red Display**

*Meter in alarm condition. Display turns red, flashes and shows HI FLOW alarm message.*

Note: Flashing red display on alarm feature also available for relay outputs.

**Output 1 and 2**

Choose an output type, assign a function, and set other parameters for the selected function.

**① Output Type Menu**

Select an output type for the open collector output. In this case, alarm function.

**② Alarm Function Menu**

Assign the alarm function to PV1, PV2, or digital input.

**③ Reset Action Menu**

Select the type of reset action.

**④ Set Parameters for the Function**

Program set and reset points. Input a time for on and off delay. Select failsafe action, change the backlight to red upon alarm, and make the display flash.

**⑤ Custom Message**

Check the box to have a message displayed on the meter. Input a custom message in the text field. The message will be displayed every 10 seconds. In this case, "HI FLOW".

Click the 🔲send button at the bottom right of the window to send new settings to the meter.

9

### Relay Output Screen

The meter can be equipped with two solid state relays as an option and these relays can be programmed to satisfy a wide variety of applications. The relay screen is used to program the relay outputs for
a specific output type (**alarm**, **pump control**, **timer**, **stopwatch)** or set to be **disabled**. The two relays may be programmed independently using the **relay 1** and **relay 2** sections. The example below shows relays 1 and 2 programmed for batch control:

**Output Type Menu**

Select an output type for the relay output. In this case, batch.



**Relay 1 Batch Function**

Select auto or manual for the batch control. Select the batch value to count up or to count down. Enter a preset value and max preset value. Enter a time for batch delay, relay on delay, and relay off delay.
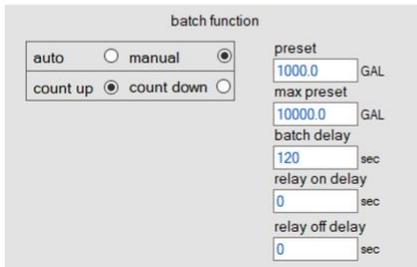
**Relay 2 Batch Function**

Select preclose or preset for the batch control. Enter a preclose/preset value. Enter a time for relay on delay and relay off delay.
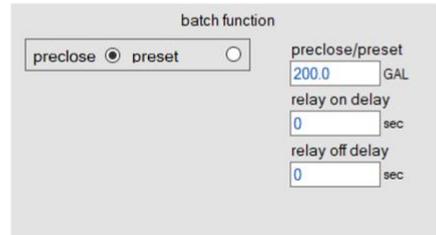
**Custom Message**

A custom message may be displayed on the meter when the relay is active by checking 'message" box. The message, "BATCH ON", in this case, will be displayed every 10 seconds.

Click the [send] button at the bottom right of the window to send new settings to the meter.

## 4-20 mA Output Screen
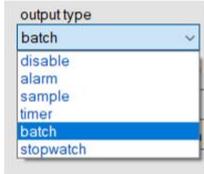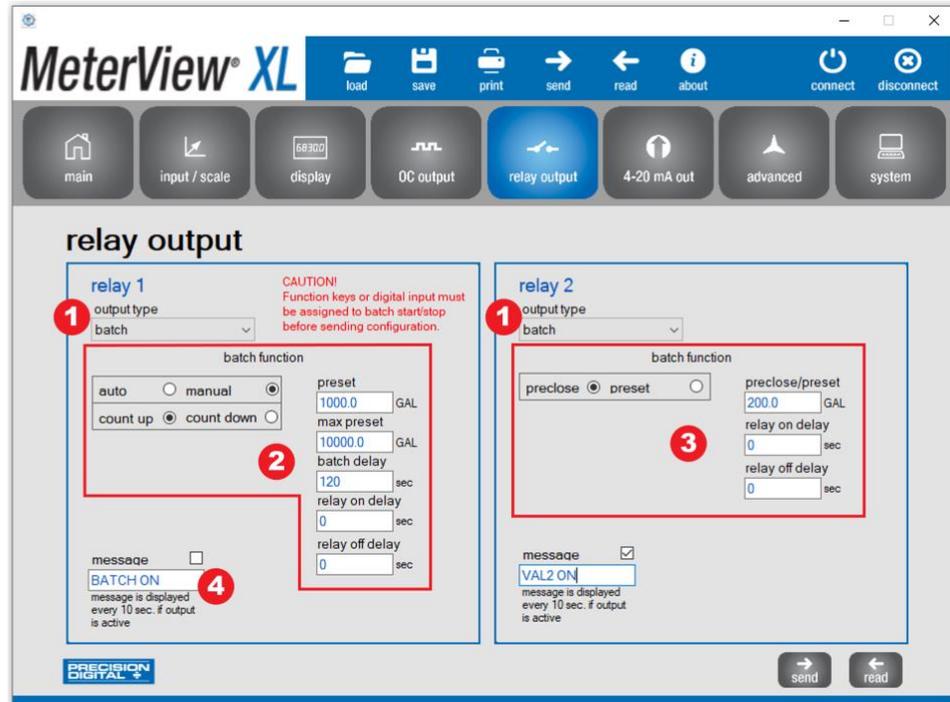
The 4-20 mA out screen allows the optional 4-20 mA analog output to be set up and scaled appropriately. The output may either be scaled independently of the input, or simply retransmitted in the same scale. In addition, analog output values can be set for under and overrange input conditions.

### Analog Output Source

This section is used for scaling the output to a new range or retransmitting the existing values.

### Output Values for Input Under and Overrange

Overrange and underrange values determine what mA signal the meter will output if the the display is underrange or overrange. This value may be set to 1 mA, 3.5 mA, 3.8 mA, 20.5 mA, 20.8 mA, 23 mA, or disabled.
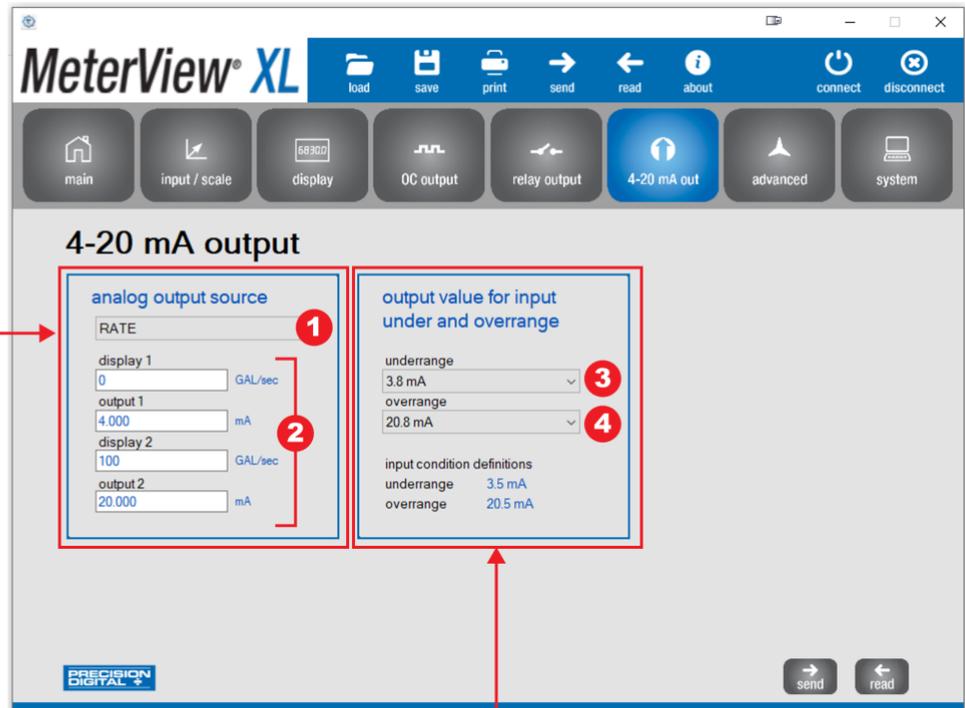
### 1 Analog Output Source Menu

Select a source for the 4-20 mA output: rate, total, or disable.
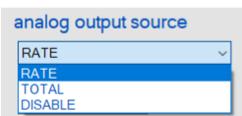
### 2 Scale Values

Enter the scale values for display 1, output 1, display 2, and output 2.
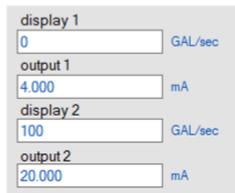
### 3 Underrange Menu

Select the output value for when the display value is underrange. This can also be disabled.

### 4 Overrange Menu

Select the output value for when the display value is overrange. This can also be disabled.
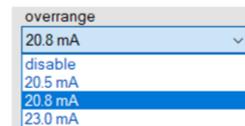
**Note:** The "input condition definitions" are not applicable to pulse input meter.

Click the [send] button at the bottom right of the window to send new settings to the meter.

11

## Advanced Screen

The advanced screen provides a way to change the meter settings that are rarely changed for most applications. The **cutoff**, and **filter** values can normally be left alone and should only be changed if there is an unsteady or noisy process signal. The **function keys / digital input** section is used to set the actions that the three front panel function keys and the digital input will perform. The **total settings** section is used to set the total and grand total reset mode, total with 8 or 13 digits limit, and the initial total value. The **data log setup** section is used to set what to log and when: event log, log day & time, log at time interval, log based on hourly or daily schedule, log continuously or stop when full, download the log to a PC, and erase the log in the meter internal memory.

**❶**

### Cutoff and Filter

**Cutoff:** Point below at which display always shows zero.

Most commonly used with differential pressure transmitters to zero out the often unsteady reading at low flow rates.

**Filter:** Used for applications where the meter is set up to count pulses generated by switch contacts.

Disable: Greater than 100 kHz (no filter)

Fast: 1,000 Hz

Medium: 240 Hz

Slow: 100 Hz



### Function Keys / Digital Input

**❷** This section is used for programming the front panel function keys and digital input, if connected.
Select an action for each of the front panel keys of the meter; F1, F2, F3, and an action for the digital input, if connected.
Below is the full list of available actions that can be set for the function keys and digital inputs.
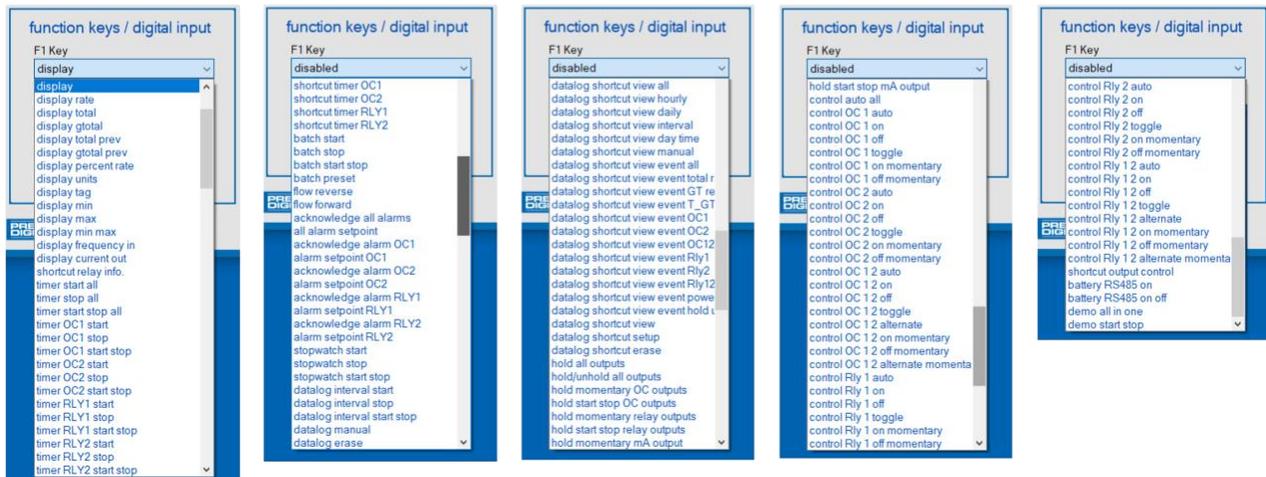


Click the [send] button at the bottom right of the window to send new settings to the meter.

### Advanced Screen Continued
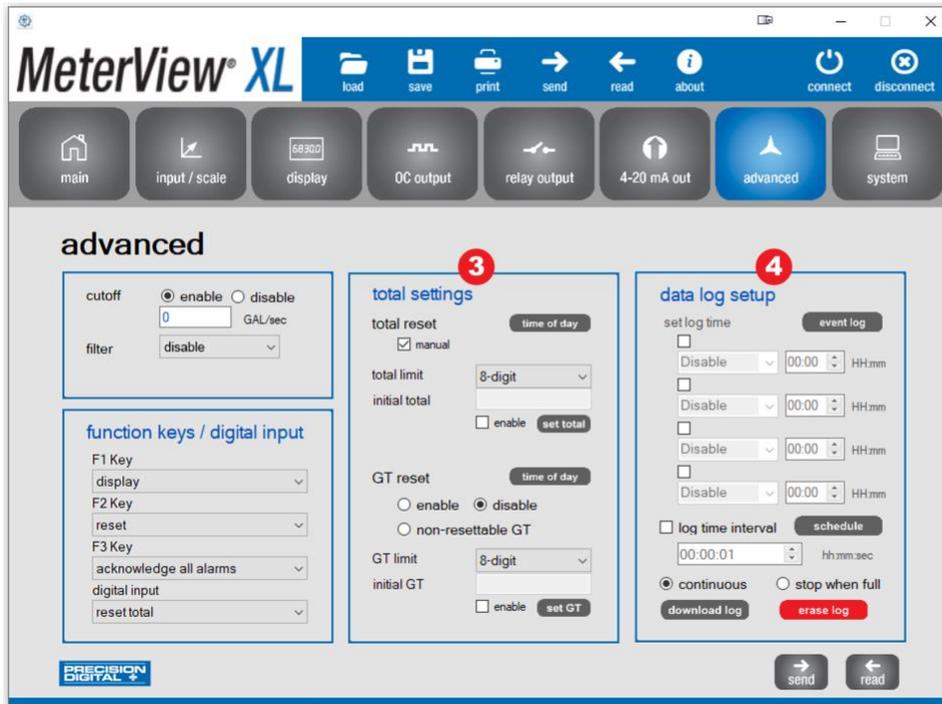


**3**
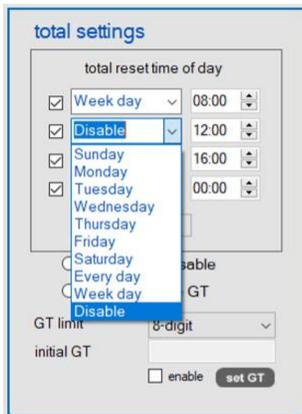
### Total Settings

This section is used for programming the total and grand total reset. Check manual to be able to reset the total manually. Select a total limit and/or grand total limit to 8 digits or 13 digits. If enabled, an initial value can be entered for both the total and grand total. Grand total reset can also be enabled or disabled and a non-resettable GT can be selected.
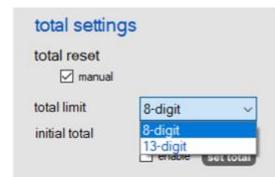
**4**
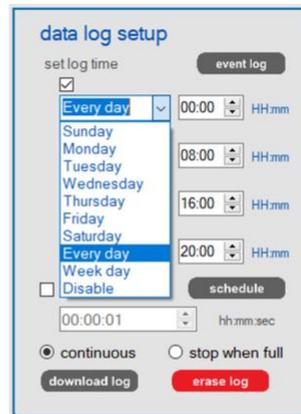
### Data Log Setup

This section is used for setting the log time and log time interval. Clicking the event log button allows for setting up the data log to capture activites for the total reset, grand total reset, hold/unhold, open collector 1 & 2, and relay 1 & 2.

Clicking the schedule button will allow for setting the data log to run on an hourly or daily basis.

The data log can be set to run continuously or to stop when full. The data from the log can be downloaded by clicking the download log button or it can be erased by clinking the erase log button.

Click the [send] button at the bottom right of the window to send new settings to the meter.

## System Screen

The system screen shows basic meter information such as software number and revision level. It also provides a means to set a password, set the meter date & time, set the battery saving features, reset the meter to factory defaults, set a system tag, and the Modbus serial settings. The system tag is a custom message that appears on meter power up (8 characters max).

**❶**

### SFT/Firmware Version

This section shows the current software (firmware) number and version. The system tag may be changed to display a custom message on power up (8 characters max).

**❷**

### Password

This section is used for setting a password which protects the meter from unauthorized changes of the settings. A password can be set for the main software settings and also for the total reset and GT reset settings. Click the change button to change the password. Enter characters in the text field.

**❸**

### Set Time

Use the dropdown menus to select the date and time.
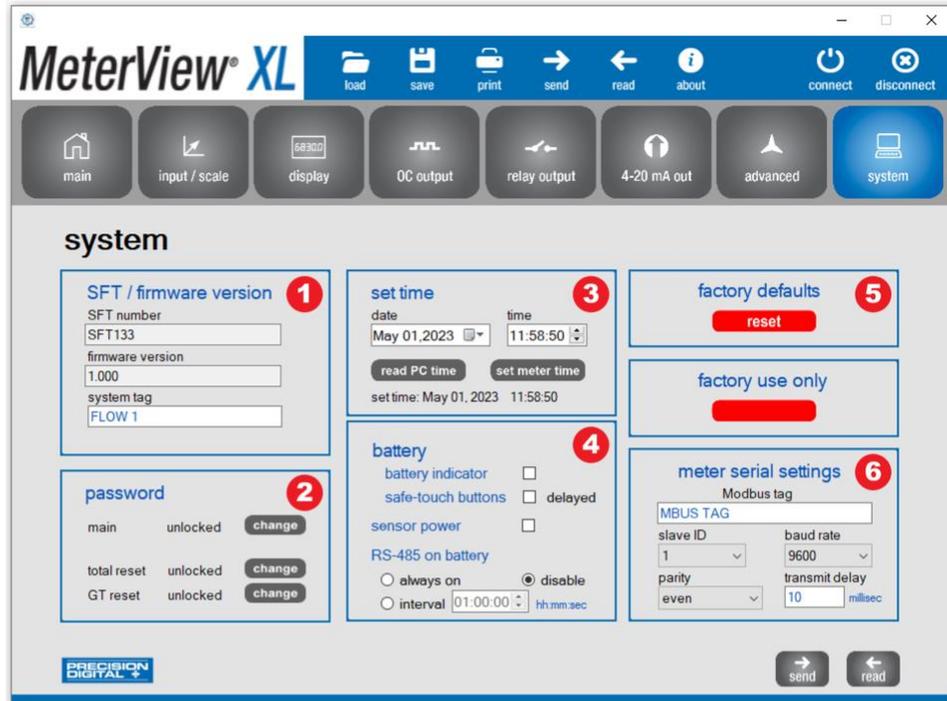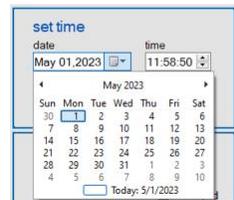


### Battery Settings

Select to show battery indicator, safe-touch buttons delayed, and sensor power. Set the RS-485 on battery to always on or disable. A time interval can also be set for the battery in hours, minutes, and seconds.

### Factory Defaults Reset Button

Click the reset button to restore all meter settings to their factory defaults.
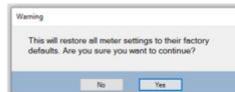
### Meter Serial Settings

Enter a name for the Modbus tag, select the slave ID, baud rate, and parity. Also enter a time for the transmit delay in miliseconds.

### Data Logging File

The log file is saved in .csv file format and it contains all the information selected in the data log setup.

- Information header
- Date & time
- Log sequence
- Log source
- Rate, total, and grand total with units
- Alarm state
- Open collector and relay state

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Meter Model | PD6938 | Firmware | 1 | MeterView | 2.1.0 | Download Time | April 18 2023 10:59 AM | | | | | | |
| 2 | Date | Time | Sequence | Source | Rate | Rate Units | Total | Total Unit | Grand Total | Grand Total Units | OC1 | OC2 | Relay1 | Relay2 |
| 3 | | | | | | | | | | | | | | |
| 4 | Apr/18/2023 | 10:17:57 | 1 | OC1 | 100 | GAL/sec | 6053 | GAL | 6053 | GAL | Alarm On | Alarm On | On | Off |
| 5 | Apr/18/2023 | 10:17:57 | 1 | OC2 | 100 | GAL/sec | 6053 | GAL | 6053 | GAL | Alarm On | Alarm On | On | Off |
| 6 | Apr/18/2023 | 10:17:57 | 1 | Rly1 | 100 | GAL/sec | 6053 | GAL | 6053 | GAL | Alarm On | Alarm On | On | Off |
| 7 | Apr/18/2023 | 10:18:00 | 2 | Interval | 100 | GAL/sec | 6353 | GAL | 6353 | GAL | Alarm On | Alarm On | On | Off |
| 8 | Apr/18/2023 | 10:18:07 | 3 | Rly1 | 64 | GAL/sec | 6975 | GAL | 6975 | GAL | Alarm On | Alarm On | Off | Off |
| 9 | Apr/18/2023 | 10:18:09 | 4 | OC2 | 26 | GAL/sec | 7028 | GAL | 7028 | GAL | Alarm On | OC2 Off | Off | Off |
| 10 | Apr/18/2023 | 10:18:12 | 5 | OC1 | 10 | GAL/sec | 7067 | GAL | 7067 | GAL | OC1 Off | OC2 Off | Off | Off |
| 11 | Apr/18/2023 | 10:18:35 | 6 | OC1 | 36 | GAL/sec | 7347 | GAL | 7347 | GAL | Alarm On | OC2 Off | Off | Off |
| 12 | Apr/18/2023 | 10:18:36 | 7 | OC2 | 45 | GAL/sec | 7398 | GAL | 7398 | GAL | Alarm On | Alarm On | Off | Off |
| 13 | Apr/18/2023 | 10:18:47 | 8 | Rly1 | 60 | GAL/sec | 8022 | GAL | 8022 | GAL | Alarm On | Alarm On | On | On |
| 14 | Apr/18/2023 | 10:18:47 | 8 | Rly2 | 60 | GAL/sec | 8022 | GAL | 8022 | GAL | Alarm On | Alarm On | On | On |
| 15 | Apr/18/2023 | 10:18:57 | 9 | Rly1 | 60 | GAL/sec | 8622 | GAL | 8622 | GAL | Alarm On | Alarm On | Off | Off |
| 16 | Apr/18/2023 | 10:18:57 | 9 | Rly2 | 60 | GAL/sec | 8622 | GAL | 8622 | GAL | Alarm On | Alarm On | Off | Off |
| 17 | Apr/18/2023 | 10:19:00 | 10 | Interval | 60 | GAL/sec | 8802 | GAL | 8802 | GAL | Alarm On | Alarm On | Off | Off |
| 18 | Apr/18/2023 | 10:19:21 | 11 | Rly1 | 60 | GAL/sec | 10062 | GAL | 10062 | GAL | Alarm On | Alarm On | On | Off |
| 19 | Apr/18/2023 | 10:19:31 | 12 | Rly1 | 60 | GAL/sec | 10662 | GAL | 10662 | GAL | Alarm On | Alarm On | Off | Off |
| 20 | Apr/18/2023 | 10:19:54 | 13 | Rly1 | 60 | GAL/sec | 12041 | GAL | 12041 | GAL | Alarm On | Alarm On | On | On |
| 21 | Apr/18/2023 | 10:19:54 | 13 | Rly2 | 60 | GAL/sec | 12041 | GAL | 12041 | GAL | Alarm On | Alarm On | On | On |
| 22 | Apr/18/2023 | 10:20:00 | 14 | Interval | 60 | GAL/sec | 12401 | GAL | 12401 | GAL | Alarm On | Alarm On | On | On |
| 23 | Apr/18/2023 | 10:20:04 | 15 | Rly1 | 60 | GAL/sec | 12641 | GAL | 12641 | GAL | Alarm On | Alarm On | Off | Off |
| 24 | Apr/18/2023 | 10:20:04 | 15 | Rly2 | 60 | GAL/sec | 12641 | GAL | 12641 | GAL | Alarm On | Alarm On | Off | Off |
| 25 | Apr/18/2023 | 10:20:27 | 16 | Rly1 | 60 | GAL/sec | 14021 | GAL | 14021 | GAL | Alarm On | Alarm On | On | Off |
| 26 | Apr/18/2023 | 10:20:37 | 17 | Rly1 | 60 | GAL/sec | 14621 | GAL | 14621 | GAL | Alarm On | Alarm On | Off | Off |
| 27 | Apr/18/2023 | 10:21:00 | 18 | Interval | 60 | GAL/sec | 16001 | GAL | 16001 | GAL | Alarm On | Alarm On | On | On |
| 28 | Apr/18/2023 | 10:21:01 | 19 | Rly1 | 60 | GAL/sec | 16061 | GAL | 16061 | GAL | Alarm On | Alarm On | On | On |
| 29 | Apr/18/2023 | 10:21:01 | 19 | Rly2 | 60 | GAL/sec | 16061 | GAL | 16061 | GAL | Alarm On | Alarm On | On | On |
| 30 | Apr/18/2023 | 10:21:11 | 20 | Rly1 | 60 | GAL/sec | 16661 | GAL | 16661 | GAL | Alarm On | Alarm On | Off | Off |
| 31 | Apr/18/2023 | 10:21:11 | 20 | Rly2 | 60 | GAL/sec | 16661 | GAL | 16661 | GAL | Alarm On | Alarm On | Off | Off |
| 32 | Apr/18/2023 | 10:21:34 | 21 | Rly1 | 60 | GAL/sec | 18041 | GAL | 18041 | GAL | Alarm On | Alarm On | On | Off |
| 33 | Apr/18/2023 | 10:21:44 | 22 | Rly1 | 60 | GAL/sec | 18641 | GAL | 18641 | GAL | Alarm On | Alarm On | Off | Off |
| 34 | Apr/18/2023 | 10:22:00 | 23 | Interval | 60 | GAL/sec | 19601 | GAL | 19601 | GAL | Alarm On | Alarm On | Off | Off |
| 35 | Apr/18/2023 | 10:22:07 | 24 | Rly1 | 60 | GAL/sec | 20021 | GAL | 20021 | GAL | Alarm On | Alarm On | On | On |
| 36 | Apr/18/2023 | 10:22:07 | 24 | Rly2 | 60 | GAL/sec | 20021 | GAL | 20021 | GAL | Alarm On | Alarm On | On | On |
| 37 | Apr/18/2023 | 10:22:17 | 25 | Rly1 | 60 | GAL/sec | 20621 | GAL | 20621 | GAL | Alarm On | Alarm On | Off | Off |

**⚠ IMPORTANT**

- The function keys and the digital input can be used to log manually at any time.

## Configuration File

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:

**Page 1**

```
Meter Configuration          Date: 04/27/2023
PD6938                       Software ID: SFT133  Revision: 1.000
System tag                   FLOW 1
Printed by MeterView XL      Version 2.1.0

-- Input --
input                        active
low gate                     1
low gate                     2
total                        enable

k-factor                     1.00001        pulses / unit

PV1 function                 linear
PV1 units family             vol rate
PV1 units                    GAL
PV1 time base                sec
PV1 scale points             2
PV1 scale                    input          display
                             0              0
                             10000          10000

-- Display --
top display                  RATE
lower display                TOTAL
custom tag                   RATE 1
tag time                     3 sec
units time                   3 sec
commas                       enable

Rate display units           GAL
Rate time base               sec
Rate decimal point           00000000

Total display units          GAL
Total multiplier             1
Total decimal point          00000000

GTotal display units         GAL
GTotal multiplier            1
GTotal decimal point         00000000

bargraph source              RATE
bargraph 0%                  0
bargraph 100%                100
```

**Page 2**

```
backlight                    10 seconds
LCD                          10 minutes

-- Open Collector --
OC1 output type              alarm
OC1 source                   rate
OC1 reset action             automatic
OC1 set point                90             GAL/sec
OC1 reset point              80             GAL/sec
OC1 on delay                 0              sec
OC1 off delay                0              sec
OC1 fail safe                disable
OC1 red backlight            enable
OC1 flash display            enable
OC1 message enable           enable         HI ALRM

OC2 output type              pulse
OC2 source                   rate
OC2 factor                   0.010000
OC2 message enable           disable        OC 2 ON

-- Relay --
relay 1 output type          sample
relay 1 sample mode          total
relay 1 sample count         1000           GAL
relay 1 sample time          10             sec
relay 1 message enable       disable        RLY1 ON

relay 2 output type          alarm
relay 2 source               total
relay 2 reset action         automatic
relay 2 set point            100000         GAL
relay 2 on delay             0              sec
relay 2 off delay            0              sec
relay 2 fail safe            disable
relay 2 red backlight        enable
relay 2 flash display        enable
relay 2 message enable       enable         T ALARM

-- mA Output --
analog output source         RATE
analog output scale          display        output
                             0              4.000
                             100            20.000
```

**Page 3**

```
analog output underrange     3.8 mA
analog output overrange      20.5 mA

-- Advanced --
cutoff enable                enable
cutoff                       0
filter                       Off
bypass                       0.4

total reset enable           enable
total limit                  8-digit
total reset clock            day            time
                             Week day       08:00  hh:mm
                             Thursday       12:00  hh:mm
                             Friday         16:00  hh:mm
                             Every day      00:00  hh:mm

grand total reset enable     disable
grand total limit            8-digit

function key 1               display
function key 2               reset
function key 3               acknowledge all alarms
digital input                reset total

-- meter log --
log wrap                     on
log time
  log time 1                 Every day      00:00
  log time 2                 Monday         08:00
  log time 3                 Tuesday        16:00
  log time 4                 Wednesday      20:00
events
  total reset                on
  grand total reset          on
  hold / unhold              off
  open copllector 1          on
  open copllector 2          on
  relay 1                    on
  relay 2                    on
log interval                 on             00:01:00  hh:mm
schedule                     houly          daily

-- battery --
```

**Page 4**

```
battery indicator            off
safe touch                   off
sensor power                 off
RS-485 on battery

-- RS485 --
Modbus tag                   MBUS TAG
slave ID                     1
baud rate                    9600
parity                       even
transmit delay               10
```

# Contact Precision Digital

## Technical Support

Call: (800) 610-5239 or (508) 655-7300

Email: support@predig.com

## Sales Support

Call: (800) 343-1001 or (508) 655-7300

Email: sales@predig.com

## Place Orders

Email: orders@predig.com

## For the latest version of this manual please visit

**www.predig.com**

## PRECISION DIGITAL CORPORATION

233 South Street • Hopkinton MA 01748 USA
Tel (800) 343-1001 • (508) 655-7300
**www.predig.com**

LIMMVXL_Pulse_A
SFT133 Ver 1.000 & up
07/23