MeterView XL Programming Software

Instruction Manual



For use with the following Feet & Inches Meters:



- 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 Variable

PRECISION DIGITAL CORPORATION





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The easiest and quickest way to program your looppowered feet & inches level meters is with the free, PC-based, MeterView XL software. The level meter connects to the PC with a USB cable that also provides the power to the level meter during programming. Programming files can be saved for later use.

- Free PC-Based USB Programming Software
- Easy Programming of Features-Packed Product
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MeterView XL Software Installation

MPORTANT

- Please uninstall previous versions of this software prior to downloading, installing, and running the latest version.
 - Download MeterView XL Installation file to your PC from the included CD or go to www.predig.com/meterviewxl
 - 2. Locate the MeterView XL zipped folder on your PC and double-click to extract and open:



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

📕 I 🖌 📕 🖛 I		Extract	MeterViewXL			-		×
File Home Share View	Compre	ssed Folder Tools						~ 🕐
Documents Pic UM6622MVXL UM6622MVXL UM6622MVXL UM6672MVXL UM6672MVXL UM678	tures 16602MVXL XL_New_In Extr	istall_Screens	Software LIM6603MVXL Software		•	Extract all		
$\leftarrow \rightarrow \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	MeterView	XL > MeterViewXL	· · ·	ō	ρ	Search M	eterView)	ι
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3D Objects	1	HeterViewXL		Windows I	Insti	iller Packa	ge	
Desktop		Readme_Release	History	Text Docur	mer	it.		
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2 items 1 item selected 5.05 MB								B11 📧

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

HeterView XL				-	-		\times
Welcome to the Me	terVie	w XL Se	tup V	/izard			
The installer will guide you throu	gh the step	s required to i	nstall Me	terView XL or	ı your	compute	er.
WARNING: This computer prog Unauthorized duplication or distr or criminal penalties, and will be	am is prote bution of th prosecuted	cted by copy nis program, o I to the maxim	ight law any por um exter	and internatio ion of it, may t possible und	nal tre result ler the	aties. in seven : law.	e civil
		< Back		Next>	1	Cano	el

 The MeterView XL License Agreement window appears next. Select "I agree" and click "Next" to continue the installation process:



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 Choose the folder location where you would like the software to be installed to and select options for use. Then click "Next" to continue:

妃 MeterView XL	- 🗆 🗙
Select Installation Folder	ECISION SITAL ÷
The installer will install MeterView XL to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it be	elow or click "Browse".
Eolder: C:\PDC\MeterView XL\	Browse
	Disk Cost
Install MeterView XL for yourself, or for anyone who uses this computer:	
< Back Next >	Cancel

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



 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 loop-powered feet & inches level meter.

Connecting to the Computer

The feet & inches meters may be connected to any Windows 7 or Windows 10 PC via the provided USB cable by following these steps:

- 1. Open the MeterView XL software.
- 2. Connect the feet & inches meter 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 <u>www.predig.com</u>
System	Microsoft® Windows® 7 & 10
Requirements	
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	Generate with or without meter
Files	connected; Save to file for later use.
USB Power	Meter is powered by USB connection
Connection	during programming, if 4-20 mA loop is
	not connected.
Compatibility	Programs created for Loop Leader and
	Loop Leader+ may be run on either
	meter. 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.



control the data logging.

Input / Scale Screen

The input / scale screen is used to configure the input signal and scale it appropriately. The meter can be programmed to display input as either one value or two different values (dual-scale) as the example below illustrates:

Function	This Meter
Set the input	4-20 mA
Enable/disable the dual-scale feature	Dual-scale enabled
Scale the input	PV1: Linear 2-Point, unit is feet, 0-16 Feet PV2: Linear 2-Point, unit is gallons, 0-50,000 GAL



Press the sent button at the bottom right of the window to send the new settings to the meter.

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 **scale PV1** and **scale PV2** sections are used for setting the units and decimal points. If the dual-scale function is disabled, only one **PV** section (**scale input**) will appear. The **bargraph** section is used for selecting the source and scaling the bargraph value. The **backlight** section allows the meter backlight to be set to be always on or off.



Press 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 high and low alarms. In addition, when an alarm occurs, the display is programed to turn red, start to flash and display an alarm message.



Press the card button at the bottom right of the window to send new settings to the meter.

Relay Output Screen

The meter can be equipped with two loop-powered 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 pump alternation:



Press the stand 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.



Advanced Screen

The advanced screen provides a way to change the meter settings that are rarely changed for most applications. The **cutoff**, **filter**, and **filter bypass** 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 one digital input will perform.



Send

Press the still 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, reset the meter to factory defaults and set a system tag. The system tag is a custom message that appears on meter power up (8 characters max).



Data Logging File

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

	>> 6603_tank				Kent M	Quade		м <u>–</u>		
F	ile Home In	isert Pa	ge L Fo	rmu	Data	Review	View	Help Acrol	bi 🖻	9
B	35 ×	: ×	~	f_{x}	12					v
	A		В			с		D	E	
1	Name:	C:\P	DC\Met	terVi	ew XL\	Log Dat	a\6603	tank level	.csv	
2	Meter Model:	PD6	603		Meter	View X	L Versi	o 2.0.0		
3	Created:	2/2	2/2021	12:09						
4										
5	Date & Time	PV1			units			PV1 perce	nt units	
6										
7	2/22/2021 12	:09		0.05	FT-IN			0	.29 %	
8	2/22/2021 12	::10		0.48	FT-IN			3	.02 %	
9	2/22/2021 12	:10		0.9	FT-IN			5	.63 %	
10	2/22/2021 12	:10		1.34	FT-IN			8	.36 %	
11	2/22/2021 12	:10		1.76	FT-IN			10	.97 %	
12	2/22/2021 12	:11		2.18	FT-IN			13	.64 %	
13	2/22/2021 12	:11		2.61	FT-IN			16	.29 %	
14	2/22/2021 12	:11		3.03	FT-IN			18	.95 %	
15	2/22/2021 12	:12		3.46	FT-IN			21	.63 %	
16	2/22/2021 12	:12		3.88	FT-IN			24	.23 %	
17	2/22/2021 12	:12		4.32	FT-IN			26	.97 %	
18	2/22/2021 12	:12		4.74	FT-IN			29	.65 %	
19	2/22/2021 12	:13		5.17	FT-IN			32	.31 %	
20	2/22/2021 12	:13		5.6	FT-IN			34	.98 %	
21	2/22/2021 12	:13		6.02	FT-IN			3	7.6 %	
22	2/22/2021 12	:13		6.45	FT-IN			40	.33 %	
23	2/22/2021 12	:14		6.88	FT-IN			42	.97 %	
24	2/22/2021 12	:14		7.31	FT-IN			45	.69 %	
25	2/22/2021 12	::14		7.73	FT-IN			48	.33 %	
26	2/22/2021 12	:15		8.15	FT-IN			50	.96 %	
27	2/22/2021 12	:15		8.59	FT-IN			53	.71 %	
28	2/22/2021 12	:15		9	FT-IN			56	.26 %	
29	2/22/2021 12	:15		9.43	FT-IN			58	.94 %	
30	2/22/2021 12	:16		9.87	FT-IN			61	.67 %	
31	2/22/2021 12	:16	1	10.29	FT-IN			6	4.3 %	
32	2/22/2021 12	:16	1	10.71	FT-IN			66	.95 %	
33	2/22/2021 12	:17		11.14	FT-IN		-	6	9.6 %	
	< > 6	603_tan	k_level1		+ ===	[77]	: •			1000/

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 reloaded into other meters. Meter configurations can also be printed:

Meter Configuration PD6603 System tag	Date: 02/23/2021 Software ID: SFT124 Revision: 2.010 PROCESS			
Printed by MeterView XL	Version 2.0.0			
Input				
input	4-20 mA			
total	disable			
dual scale	cnable			
PV1 function	linear			
PV1 units family	height			
PV1 units	FT-IN			
PV1 scale points	2			
PV1 scale	input display			
i i i seute	4 000 0-0			
	20.000 16-0			
PV2 function	linear			
PV2 source	PV1			
PV2 units family	volume			
PV2 units	GAL			
PV2 scale points	2			
PV2 scale	input display			
	0-0 0			
	16-0 50000			
Display				
top display	PV1			
lower display	PV2-U-T			
custom tag	TANK 1			
tag time	2 sec			
units time	2 sec			
commas	enable			
PV1 display units	FT-IN/*			
PV1 decimal point	222222.22			
PV2 display units	GAL			
PV2 decimal point	0000000			
bargraph source	PV1			
bargraph 0%	0			
baroroph 100%	16			

backlight	always on	
LCD		
Open Collector		
OC1 output type	alarm	
OC1 source	PV1	
OC1 reset action	latch	
OC1 set point	15.00	FT
OC1 reset point	14.50	FT
OC1 on delay	0	sec
OCI off delay	0	sec
OCI tail sale	enable	
OCT red backlight	enable	
OCI Ilash display	enable	
DCT message enable	enable	HI LEVEL
OC2 output type	alarm	
OC2 source	PV1	
OC2 reset action	automatic	
OC2 set point	1.00	FT
OC2 reset point	1.50	FT
OC2 on delay	0	sec
DC2 off delay	0	sec
OC2 fail safe	enable	
OC2 red backlight	enable	
OC2 flash display	enable	
OC2 message enable	enable	LO LEVEI.
Relay		
relay I output type	pump cont	rol
relay 1 pump function	pump alter	nation
relay 1 pump alternation time	0	sec
relay 1 pump source	PVI	
relay I pump on	14.00	FT
relay I pump off	2,00	FT
relay 1 on delay	0	sec
relay I off delay	0	sec
relay 1 message enable	enable	PUMP I
relay 2 output type	disable	
relay 2 message enable	enable	PUMP 2
mA Output		
analog output source	PV1	

unalog output scale display output 0 4,000 16 20,000 unalog output underrange 1.0 mA -- Advanced -cutoff cutole disable cutoff 0,000 ff 2,000 ff 2

Contact Precision Digital

Technical Support

Call: (800) 610-5239 or (508) 655-7300 Fax: (508) 655-8990 Email: support@predig.com

Sales Support

Call: (800) 343-1001 or (508) 655-7300 Fax: (508) 655-8990 Email: sales@predig.com

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