Quick Start Guide







Thank you for your purchase of the Helios PD2-6000 large display meter.

This quick start guide will briefly describe some of the common setup procedures for this meter.

This guide includes:

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Additional information about the Helios PD2-6000 meter can be found in the instruction manual included on the CD or available at www.predig.com.



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Menu Button - Access Programming Mode and to return to Run Mode

Note: If you think you have made a mistake while programming the meter, use this button to return the meter to Run Mode without saving.



Right/Reset Button - Change the selected digit while inputting numeric values in *Programming Mode*.



Up/Max Button - Increment the selected digit while inputting numeric values in Programming Mode.



Enter Button – Access a menu or accept an option while in Programmina Mode.

Programming buttons are located under the bottom door panel. They can be accessed by loosening the securing screw and lifting the door panel.



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Installing MeterView® Pro

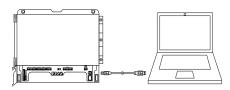
The meter can be programmed using MeterView Pro. This software can be installed on any Microsoft® Windows® (2000/XP/Vista/7/8/10) computer by connecting to the meter's onboard USB. The meter is powered by the USB connection, so there is no need to wire anything prior to programming the meter.

1

Connect the provided USB cable to the meter and the computer as shown. The computer will automatically install the driver software it needs to talk to the meter.

Note: Only one meter may be connected at a time.

Attaching multiple meters will cause a conflict
with the meter software.



3

Double-click on the file named "MAStart."



The program will open a few windows and install two programs on your computer. Simply follow the onscreen instructions until you see one of the dialogs in step 4.

Note: If you receive a *User Account Control* warning, click "Yes."

2

Once the driver is installed, an AutoPlay dialog should appear for the drive "MAINSTAL." Click "Open folder to view files."



If the computer does not display an AutoPlay dialog for the drive "MAINSTAL," you should open *My Computer* and double-click on the drive labeled "MAINSTAL."



4

If there is an update available, click the "Update" button to install the new version.

Otherwise, click "Configure" to begin programming your meter.





Note: When you update your MeterView Pro software, you will be asked if you want to update the setup files located on the meter itself. This way, you will always have the most current version on the meter for future installs.

Note: The remainder of this guide will explain how to configure your meter using either the MeterView Pro software or the configuration menus in the meter itself. It is only necessary to perform one of these operations in order to configure the meter for a desired setting.

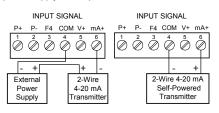
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Basic Wiring for Helios Meter

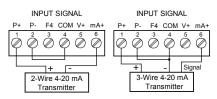
The connectors label, affixed to the inside of the front door panel, shows the location of all available connectors. Run wires through conduit holes at the base of the meter, connect to the provided screw terminals, and plug into the meter as indicated.

4-20 mA Input Wiring

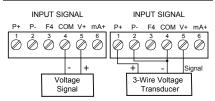
Wiring for a 4-20 mA input using either an external power supply or self powered transmitter.



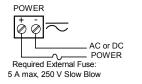
Wiring for a 4-20 mA input using internal power supply.



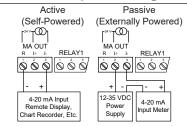
0-10 V Input Wiring



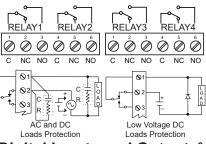
Power Connection



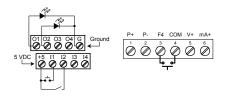
4-20 mA Output Wiring¹



Relay Connections²



Digital Inputs and Outputs³



Consult the PD2-6000 instruction manual located on the included CD or available online at www.predig.com for additional wiring diagrams.

Helios models with 4-20 mA output option (PD2-6000-XH7)

² Helios models with relay option (PD2-6000-XH7)

³ If accessible pushbuttons are required once initial programming is complete, the use of digital inputs is recommended.

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Program and Scale the Input

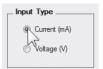
Program the Helios meter to accept a 4-20 mA or 0-10 V input and display a value associated with that range. When the meter is receiving a 4 mA or 0 V input, it will display the low end of the display range; when receiving a 20 mA or 10 V input, it will display the high end of the display range. The input values can be changed if needed, but the steps to do so have been omitted for this quick start guide.

For example: If the meter was used to display the level of a 100 ft tall tank, the transmitter should send a 4 mA signal when the tank is empty and a 20 mA signal when the tank is full. The meter would be programmed to interpret these inputs on a display range of 0-100, so that at 4 mA the meter will display 0.00 and at 20 mA the meter will display 100.00.

MeterView Pro Software ==

1

On the Setup tab, under Input Type, select the desired input.

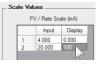


On the Programming tab, select the desired decimal point location.



3

Under Scale Values. enter the desired low and high display values in the Display column.



Click the Send Meter Data button Get Meter Data Send Meter Data Exit

to send your programmed settings to the meter

= Meter Configuration Menus ==

to enter Programming Mode, press

to access the 5EtuP (Setup) menu.



Press 7 to access the InPut (Input) menu.



3

Press | to select either mA or voltage (nafl or UoLE) and then press



Press 🖹 to access the d-5ERL (Dual



Scale) menu, press

to select 5E5 or no.

then press

Note: Most applications only require one scale

(select no). 5 6

> Press until the desired decimal point



(Decimal Point) menu is displayed and to access.

multiple

times, until the dEc PE

location is displayed and press



Press

Quick Start Guide

to access the Pro5 (Program) menu.



8

Mode

Press to access the 5ERLE (Scale) menu.

SCRL F ProG

9

Press 1 three times, (Low until d .5



10 Press 5

three times, until d 5 ∂ (High

Display Value) is displayed. Press change which digit is selected, press

to increment the selected digit, and press i when done.

Display Value) is displayed. Using select your desired value. When done. to return to Run 🖪 Press

Program Relays for Automatic Reset

Program the Helios meter to turn the relays on at programmable set points and turn them off at reset points.

Note: If the set point is higher than the reset point, the relay will be a high alarm. If the set point is lower than the reset point, the relay will be a low alarm.

MeterView Pro Software =

On the Relays tab, in the desired relay section, select "Auto" from the Action drop down list.

Auto w/ Mar Latching Latch w/Clear Pump Alternate Sample

Get Meter Data Send Meter, Data Exit

Action

Enter the set and reset point values in the provided fields.

Action Auto Set Point Reset 50 000 45

Click the Send Meter Data button

to send your programmed settings to the meter

Note: All four relays (if installed) are programmed in this manner. It is not necessary to send your programmed settings to the meter after each relay is programmed, simply repeat steps 1 & 2 for each relay then send to the meter

= Meter Configuration Menus ==

to enter Programming Mode, press



SELUP

Press until the rELRY (Relay) menu is displayed and then press



to access.

to access the 5EtuP (Setup) menu.

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Press until the appropriate relay number c FI RY

Press to access the Ret (Relay Action) menu



5

Press to accept Ruto (Automatic

Ruba RcE

6 Press to access the

5EL (Relay Set Point)

Reset).

Using 🖥 to change which digit is selected

SFFto increment the selected digit, enter the desired set point value. Press

is displayed (ᠵ᠘᠑᠆/-Ч) and then press 🖺

menu 8

to access the r5≿ (Relay Reset Point) menu.

9

when done.

Using as above, select your

desired reset value. Press when done to accept the new set point value. Press return to Run Mode.

Note: Use 1 to select a different relay during step 3. If you need to program more relays, simply repeat steps 3-9 for each additional relay. Consult the Instruction Manual for information on additional relay action types.

Program Custom Unit Tags

Program the Helios meter to display custom unit tags for the process value. The secondary display (line 2) shows this custom unit tag by default.

Note: The custom unit tag has no bearing on the meter's operation or the process value. Displaying a custom unit tag is simply for ease of reading.

= MeterView Pro Software =====

On the Setup tab, in the Display section, enter your desired

units designation in the provided field. This field is limited to six characters. The letters 'm' and 'w' count as two because they require two LEDs.

Click the Send Meter Data button

to send your programmed settings to the meter.

Get Meter Data Send Meter, Data Exit

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------ Meter Configuration Menus

1

to enter Pro-Press I gramming Mode, press



Press | until the யா 15 (Units) menu is un 185

displayed and then press to access.

The meter will display the default unit tag (mA).



Notice here that the letter 'm' uses two 7 segment LEDs. This is true of the letter 'w' as well.

to access the 5EtuP (Setup) menu.

Use to change which letter is selected



to increment to the next letter. Press and when done to accept the new unit tag.

Program 4-20 mA Analog Output

Program the Helios meter to output an analog signal based on its display value. This signal is commonly output to a PLC or chart recorder.

Note: The display values programmed for 4-20 analog output do not need to be the same as those programmed as input scale values, though they most commonly will be.

MeterView Pro Software ======

On the Setup tab. under Analog Out Scale, enter your

Analog Out Scale Display 2 Value Output 2 Value 20.000

desired display values in the provided fields.

Click the Send Meter Data button Get Meter Data Send Meter Data Exit

to send your programmed settings to the meter.

menu is displayed and then press

Meter Configuration Menus ==

1

3

Press to enter Programming Mode, press



Press 🖺 until the Rout (Analog Out)



to access the 5EtuP (Setup) menu.

4

to change Use which digit is selected



Press to access the d .5 (Display 1)



menu. This is the display value at which the low range of the output will be transmitted.

to increment the selected digit. Press when done to accept the new value.

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5

Press to access the பேட் (Output 1) menu.



This is the output signal which represents d 15 1.

7

Press to access the d 5 2 (Display 2)



menu. This is the display value at which the high range of the output will be transmitted.

9

Press to access the มีปะ 2 (Output 2) menu.



This is the output signal which represents 4.5.2

The default value of 04.000 (4 mA) should



be sufficient for most applications. Press to accept the default value.

8

Use to change which digit is selected



to increment the selected digit. Press when done to accept the new value.

10

The default value of 20000 (20 mA) should



be sufficient for most applications. Press to accept the default value.

Reset Meter to Factory Defaults

Reset Meter

If a mistake has been made while programming the meter and it is unclear where the error occurred, the best option may be to perform a factory reset of the meter and begin again.

MeterView Pro Software ===

On the Advanced Features



tab. in the bottom left-hand corner, click the Reset Meter Factory Defaults button.

In the confirmation window that appears, click



d ,85

OK. The meter will reset to factory defaults.

= Meter Configuration Menus ======

1

Press and hold five seconds to enter



the Advanced Features Menu.

Press and hold until the meter flashes



rESEL (reset). Immediately press to reset the meter.



Press until the ರ ಚಿದ್ಧ (diagnostics) menu is displayed.

of the LED seaments

ProcE5 The meter will flash all

and then display ProcE5 (Process). The meter has been reset to factory default settings.

8

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