Helios PD2-6000 Large Display Meter 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.

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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 *Programming Mode*.

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



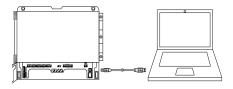
Helios PD2-6000 Large Display Meter Quick Start Guide Installing MeterView[®] Pro

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."

@ AutoPlay	
MAINSTAL (F:)	
General options	
Use this drive for backar Use this drive for backar Use guing Windows Backap	
View more AutoPlay options in Control Panel	

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.

🕒 MeterView Pro 📃 🔤 🔀
Exit USB Connection About
PRECISION DIGITAL ÷ MeterView Pro
Meter Type PD5050 v Configure Monitor
Status

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.

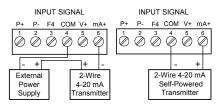
Note: The remainder of this guide will explain how to configure your meter using either the MeterView Pro software or the configuration menus in the meter itself. It is only necessary to perform one of these operations in order to configure the meter for a desired setting.

Helios PD2-6000 Large Display MeterQuick Start GuideBasic Wiring for Helios Meter

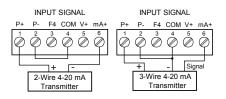
The connectors label, affixed to the inside of the front door panel, shows the location of all available connectors. Run wires through conduit holes at the base of the meter, connect to the provided screw terminals, and plug into the meter as indicated.

4-20 mA Input Wiring

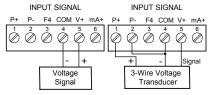
Wiring for a 4-20 mA input using either an external power supply or self powered transmitter.



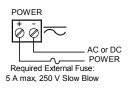
Wiring for a 4-20 mA input using internal power supply.



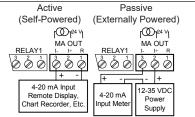
0-10 V Input Wiring



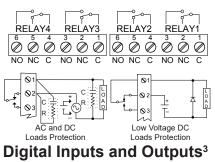
Power Connection

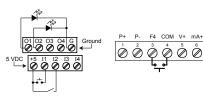


4-20 mA Output Wiring¹



Relay Connections²





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

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

3

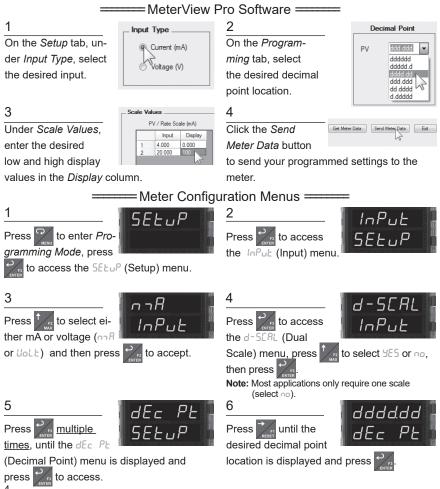
¹ Helios models with 4-20 mA output option (PD2-6000-XH7)

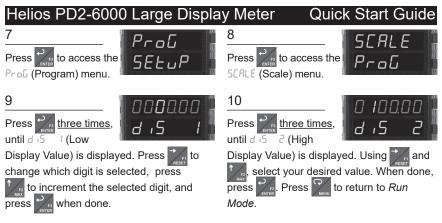
² Helios models with relay option (PD2-6000-XH7)

Helios PD2-6000 Large Display MeterQuick Start GuideProgram 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.





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 I	Pro Software =====	=
1	Action	2	Action
On the <i>Relays</i> tab,	Auto	Enter the set and	Auto 👻
in the desired relay	Auto Auto w/ Man	reset point values in	Set Point Reset
section, select "Auto"	Latching 🗥 Latch w/ Clear	the provided fields.	50.000 45 T
from the Action drop	Pump Alternate Sample		
down list. 3	Off	Note: All four relays (i	f installed) are
Click the Send	Get Meter Data Send Meter Data Exit	1 0	this manner. It is
Meter Data button	W	,	o send your pro-
to send your program	med settings to the	° ·	igs to the meter after ogrammed, simply
meter.			& 2 for each relay
		then send to the	e meter.

Meter Configuration Menus =

1

Press



to access the SELuP (Setup) menu.

2



until the FELRY (Relay) menu is

displayed and then press

to access.

-F! 84

Helios PD2-6000 Large Display Meter

3

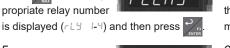
Press until the appropriate relav number



Ruhn

Rct

SFF



5

Press to accept Ruto (Automatic Reset).



Using l to change

which digit is selected

and 🕯 to increment the selected digit, enter the desired set point value. Press when done.

Using and as above, select your

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



4

Press 7/18 to access the Bet (Relay Action) menu

5EE (Relay Set Point)

to access the

to access the

6

Press

menu

Press

menu.

8







Note: Use ¹/_{F2} 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

Line 1 Display		Units
PV	•	feet]
Line 2 Display		Display Intensity
Engineering Units	-	8 -

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.

\mathbf{r}	
2	
_	_

Click the Send



Meter Data button

to send your programmed settings to the meter.

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-L

1

Helios PD2-6000 Large Display Meter Quick Start Guide

------- Meter Configuration Menus

1

to enter Pro-Press

gramming Mode, press

to access the SELuP (Setup) menu.



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



SELuP

Notice here that the letter 'm' uses two 7 seg-

ment LEDs. This is true of the letter 'w' as well.



Press until the

un 15 (Units) menu is displayed and then press

which letter is selected



to access.

4 Use to change



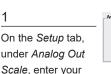
to increment to the next letter. Press and

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.



Analog Out Scale Display 1 Value Output 1 Value 4.000 mA Display 2 Value Output 2 Value 20.000 mΑ

	Pro Software =====	-
Dut Scale	2	

Click the Send Meter Data button



to send your programmed settings to the meter.

-------- Meter Configuration Menus 1 2 SELUP Rout Press to enter Pro-Press until the SFF, Pgramming Mode, press Rout (Analog Out) to access the SELuP (Setup) menu. menu is displayed and then press 3 4 בי ה to change Press to access Roub Use the d_{15} + (Display 1) which diait is selected and

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

desired display values in the provided fields.



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

Helios PD2-6000 Large Display Meter

 $\square \sqcup E$

Rout

Quick Start Guide

5

Press rest to access the Dut (Output 1) menu.

This is the output signal which represents d (5 - 1,

7

Press Press to access



0ue 2

the $d_{15} \neq (\text{Display 2})$

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



Press Figure to access the Dut 2 (Output 2) menu.

This is the output signal which represents 4.5.2

tab, in the bottom left-hand corner, click the

Reset Meter Factory Defaults button.

6

The default value of 04000 (4 mA) should

 $\square \sqcup E$ be sufficient for most applications. Press

to accept the default value.







ПЧООО

and 1 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

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 ===

1

1

3



Reset Meter Factory Defaults

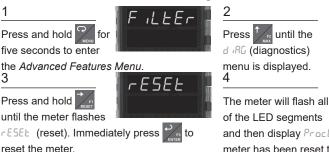


Cancel OK

dow that appears, click

OK. The meter will reset to factory defaults.

Meter Configuration Menus







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

