TheMeterDisplay™
by SCADAmetrics®

DIEHL HYDRUS APPLICATION NOTE

Model TMD

Diehl Hydrus

User Manual Download (PDF)

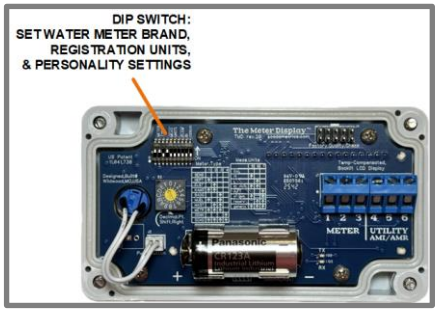
1. DOWNLOAD, AND READ THE USER MANUAL! The QR Code Link to the User Manual is displayed above, and the QR Code is also imprinted on the bottom of the Display's shipping box.

2. If you do not download the read the User Manual, then at least read this condensed instruction sheet, and your chance of success will still be greatly improved! Make sure to read this condensed instruction sheet in its entirety before beginning installation.

3. Take a photo of the **Hydrus** meter register with your camera phone. Make note of the registration units: Gallons …or… Cubic Feet?

4. Open up the TMD Display by loosening the four (4) front screws.

5. Inside the TMD, locate the DIP Switches and set per the meter specifics:

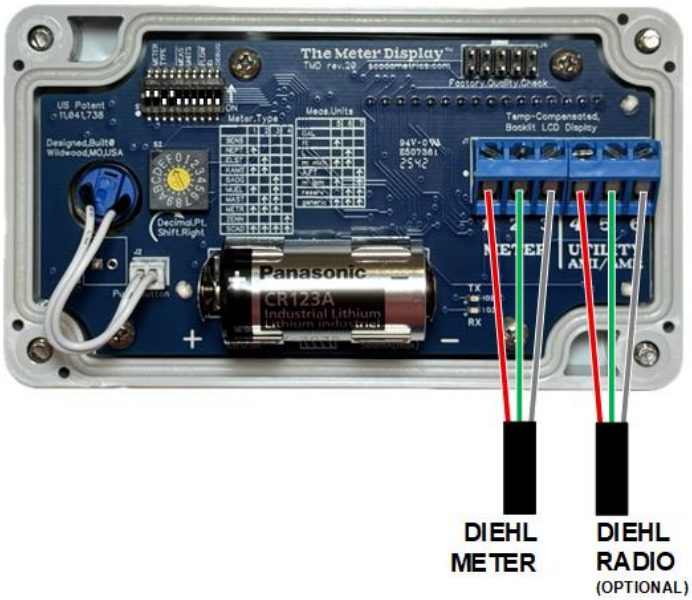


DIEHL METERS

GAL **FT³** **M³**

6. Thread the **Hydrus** data cable through the right cable gland the land the 3 conductors into the TMD terminal block, as follows:

1=RED, 2=GREEN, 3=BLACK.

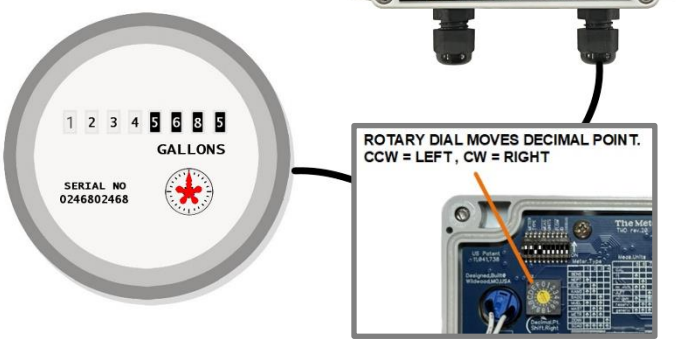


7. Press the "READ" button on the front of the TMD. The backlight should light up, followed by a display of the meter reading. Take a photo of the TMD displayed total using your camera phone.

8. If the decimal point placement on the TMD display does not match the **Hydrus** display, then you must adjust the TMD rotary dial to correctly place the decimal point. (The decimal point position is usually not transmitted on the data cable, and therefore this adjustment must be performed manually.)

Displayed Decimal Point Position Does Not Match the Meter?...

Easy! – Adjust the TMD rotary dial to move the decimal point on the display. CCW moves LEFT. CW moves RIGHT.



9. If one or more of the digits displayed on the **Hydrus** register are not displayed on the TMD display, this means that those digits are suppressed within the **Hydrus** meter programming (not transmitted on the data cable).

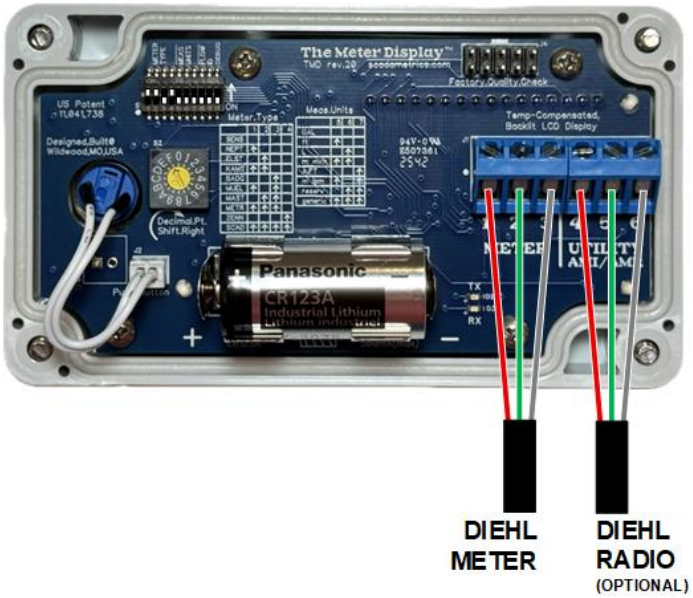
Your options are to: a) Treat the missing digits as zeros, and adjust the decimal point placement in the TMD accordingly, or b) Contact your **Diehl** meter distributor and request that the **Hydrus** meter be re-programmed to transmit all digits.

10. If rate-of-flow display is desired, turn ON dip switch #8 (of 10).

11. If meter ID display is desired, turn ON dip switch #9 (of 10).

12. If a Diehl AMI radio endpoint is to be co-connected, then thread its data cable through the TMD left cable gland and land its 3 conductors as follows:

4=RED, 5=GREEN, 6=BLACK



13. If no AMI radio endpoint is to be co-connected, then unscrew the left cable gland and replace it with the provided ¼ Inch NPT-male threaded plug to seal up the unit.

14. Place the desiccant pack into the back cover of the TMD display, and mount the back cover onto the wall or other backing surface. Cable glands should be pointed down! (not up!)

15. Make sure the display front and back cover perimeters are clean of all debris. Then tighten all four (4) screws, and tighten all cable glands.

KEY POINTS (MUST READ!) –

A. TheMeterDisplay™ is designed as an indoor/outdoor unit (but never submerged!), capable of being opened and re-sealed, thereby allowing for the user to protect the wiring and replace depleted batteries. With these capabilities also comes a heavy responsibility upon the user to properly re-seal the unit!

B. Unit should be mounted on a wall or post, facing the user, and with the cable glands pointed down! – You know why is this important!

C. If the pass-thru port is not used, then the unused cable gland should be filled with a blanking plug, or replaced by a ¼" NPT plug!

D. Do not install more than 1 jacketed cable within a cable gland!

E. Tighten the cable gland nut after installation to ensure a proper seal.

F. Place the desiccant packs inside the display before re-sealing! Do not throw them away!

G. Improper installation or any evidence of moisture inside the display voids the warranty.

H. Use common sense!

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