



Global Water
Instrumentation, Inc.

Addendum: GL400-1-1 Pulse Calibration

The pulse channel has been moved to analog channel 2. To calibrate the pulse channel follow the instructions below:

- 1) Unscrew lid to logger enclosure to expose circuit boards
- 2) Enter setup and set High EU to 2.5
- 3) Set Low EU to 0
- 4) Set High Raw to 65535
- 5) Set Low Raw to 0
- 6) Set decimal places to 5
- 7) Set fixed interval for 20-30 seconds.
- 8) Accept settings and enter main screen.
- 9) Watch green LED on pulse adapter board. After it has turned on and turned off pulse the channel 10 times, wait for the green LED to turn on then off, and repeat the pulses. Do three to four cycles of 10 pulses.
- 10) Get history data. Verify the recordings are reasonable (between .09 and .07) and consistent. Divide the results by 10 (number of pulses) and average. This result is the voltage of each pulse.
- 11) Divide 2.5V by the voltage of each pulse. The result number becomes your new High EU in pulses.
- 12) Enter SETUP and change the high EU to the value you calculated and change the decimal places to 0. (Depending on the source of the pulses you can calibrate the high EU at this stage. I.e. Divide by EU by 100 for a rain gauge that reads in hundredths of an inch or multiply to get the correct value for an insertion flow meter. Remember to change the engineering units to inches or a flow total unit.)
- 13) Reseat logger housing lid and screw lid to housing to seal unit.

NOTE: The logger can only record 256 pulses per time interval.