Quick Reference

WL400 Level Sensor

Pressure Transducer for measuring Water Level with analog 4-20mA Output and Barometric Pressure compensation.

Basic Handling & Operation:
- Ensure that the cable is handled & stored with large loops and NOT KINKED (which blocks the barometric compensation tube).

Big Loops, No Kinks

Installation Notes:

Groundwater Installations:
- Terminate cable into dry enclosure – to avoid moisture entering pressure compensation tube in cable.

- Don't Lose Your Sensor: Ensure that the cable is clamped securely to topside hardware BEFORE deploying sensor down well.

- It is not necessary to locate the sensor at the well's bottom – merely below the lowest likely water level.

- Avoid cable entanglements by installing sensor at least ten feet above the well pump.

Open-Channel Installations:
- Keep debris, silt or mud away from sensor (eg: Open Channel installations) by housing sensor in perforated conduit or wellscreen.

- Use Long-Sweep Elbows (PVC conduit fittings) to ease cable deployment through conduit for riverbank monitoring of flow / level in open channels.
Wiring Notes:

• Connect sensor cable to Analog Input (Current or Voltage) terminals of data collection device (e.g.: Global GL500 Data Logger, PLC, RTU, etc.)

![WL400 sensor diagram]

• When testing or troubleshooting the level sensor, **disconnect it from your system power source**, and connect to an independent battery or power supply and read output with multimeter.

• To test the actual sensor output, submerse sensor in a water column and look for a current output at or above 4mA and below 20mA. The output increases with increasing depth.