

Connecting APG MNU- Ultrasonic Level Sensor

Automation Products Group, Inc. (APG) is a leading supplier of pressure, flow, and level sensors.

The MNU series of ultrasonic level sensors is compatible with the NexSens X2 data logger using the RS-485 Modbus RTU output. Complete configuration information can be found at:

APGs Sensor Manual

<https://www.apgsensors.com/sites/default/files/manuals/MNU-manual.pdf>



6424 model

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Connectorization

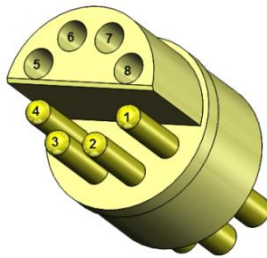
For compatibility, sensors must have UW connectors. There are 3 options:

- Factory installed UW connectors
- UW Plug and Flying Lead cable
- UW Field Wireable Plug

Recommendation: Invest in factory connectorization of all sensors for a long-term, robust and waterproof connection



UW to Flying Lead Cable



UW-8P



UW Field Wireable Plug



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APG-MNU Wiring Guide

APG MNU Wire Color	Signal
Red	V+
Black	GND
White	RS485-A
Green	RS485-B

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Configuring Web Output

By default the **Level** parameter from the MNU will display distance to water. To configure this to display actual water level, the coefficients for the Level parameter in the Remote Device Configuration menu of WQData Live can be edited.

The modification equation is in the format of **Ax^2+Bx+C** , where:

- **A** is 0
- **B** is -1
- **C** is the distance from the sensor face to the channel bed in feet

Remote Device Configuration

- ▶ X2 Meta Parameters
- ▼ MNU
 - ▶ Distance
 - ▶ Temperature
 - ▼ Level
 - Enable:
 - Transmit logged data to datacenter:
 - Upload 1 of every Data points
 - Calibration Coefficients ?
 - A
 - B
 - C