

# APG MNU Series Quick Start Guide

The APG MNU is fully compatible with NexSens X2-series data loggers using RS-485 Modbus RTU output for real-time water level monitoring.



## Connection

**Note:** Most sensors will have factory-installed UW connectors. If this is the case, skip to the **Data Logger Connection** section.

For compatibility with an X2 data logger, sensors must be fitted with a UW connector.

Two UW connections are available:

- Factory-installed UW-Plug (UW-CON) connection
- UW Field Wireable Plug (UW-FWP) connection



UW-FWP



UW-CON

## Wiring Table for UW-FWP

APG MNU Wire Color	Signal	UW-FWP J Pin Connection
Red	V+	J5
Black	GND	J2
White	RS485-A	J8
Green	RS485-B	J7

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## Data Logger Connection

- 1 Setup your data logger on WQData LIVE by:
  - a. Following the **Quick Start Guide** included with your order.
  - b. Visiting **NexSens Knowledge Base | Data Logger | User Guides** on the NexSens website.
  
- 2 Once this is completed:
  - a. Plug the sensor into the data logger.
  - b. After the next logger reading, confirm that the sensor is uploaded to the WQData LIVE project, and is showing valid readings.
  - c. Gather a few readings before deployment.

## Configure Web Coefficients

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

**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

The modification equation is in the format of  $Ax^2+Bx+C$ , where: **A** is 0, **B** is -1, and **C** is the distance from the sensor face to the channel bed in feet.

For additional information, please read the APG MNU Manual located on the APG website.

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