

# Connecting In-Situ Aqua Troll 200/400/600

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The In-Situ Aqua Troll series of sensors are compatible with the NexSens X2 data logger using RS485 Modbus communication protocol.

Complete configuration information for each model of Aqua Troll is located in the manufacturer's manual below.

## In-Situ Manuals

Aqua Troll 200- [https://in-situ.com/wp-content/uploads/2014/11/Aqua-TROLL-100-200\\_Manual.pdf](https://in-situ.com/wp-content/uploads/2014/11/Aqua-TROLL-100-200_Manual.pdf)

Aqua Troll 400- [https://in-situ.com/wp-content/uploads/2014/11/Aqua\\_TROLL\\_400\\_Manual.pdf](https://in-situ.com/wp-content/uploads/2014/11/Aqua_TROLL_400_Manual.pdf)

Aqua Troll 600- [https://in-situ.com/wp-content/uploads/2015/12/AT\\_600\\_man\\_0096400.pdf](https://in-situ.com/wp-content/uploads/2015/12/AT_600_man_0096400.pdf)



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## Connectorization

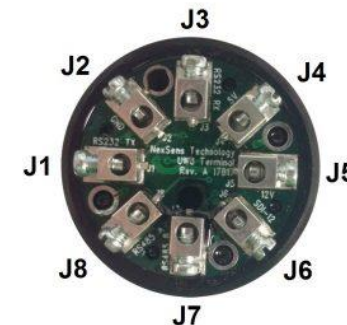
For compatibility with an X2 data logger, sensors must have UW connectors. There are 2 options:

- Factory installed UW connectors
- UW Field Wireable Plug (shown in adjacent table)

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

UW8-Plug Pin	In-Situ Twist Lock Field Cable	UW-FWP	UW-FWP
1	-	RS-232 Tx	J <sup>1</sup>
2	Black	Ground	J <sup>2</sup>
3	-	RS-232 Rx	J <sup>3</sup>
4	-	5V	J <sup>4</sup>
5	Red	12V	J <sup>5</sup>
6	-	SDI-12	J <sup>6</sup>
7	Green	RS-485 B	J <sup>7</sup>
8	Blue	RS-485 A	J <sup>8</sup>

UW Field Wireable Plug



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## Internal Power

For the Aqua Troll 400 and 600 sensors internal alkaline batteries must be removed for operation with an X2 data logger.

The X2 only supplies 12V power to the Aqua Troll during prescribed readings. Internal batteries, when installed, will deplete over time and cause the sensor to stop responding when internal power becomes insufficient for operation.

## Modbus Communication

The X2 expects the Aqua Troll to use No Parity for communication. Should an Aqua Troll not be detected by an X2, verify that the Modbus communication settings are configured for the following via the Win-Situ or COM Kit Software utilities:

Baud Rate	19200
Data Bits	8
Stop Bits	1
Parity	None