

Observer NEP5000 Turbidity Sensor Quick Start Guide

The Observer ANALITE NEP5000 Turbidity Sensor is compatible with the Nexsens X2 data logger using SDI-12 output, and is designed for environmental monitoring and process applications.



Calibrating the NEP5000

For configuration and calibration, the Observer ANALITE NEP5000 Configuration Kit accessory must be used. This kit comes with a dedicated Subconn connection cable.

The Subconn cable to calibration module connection is detailed in the table below.

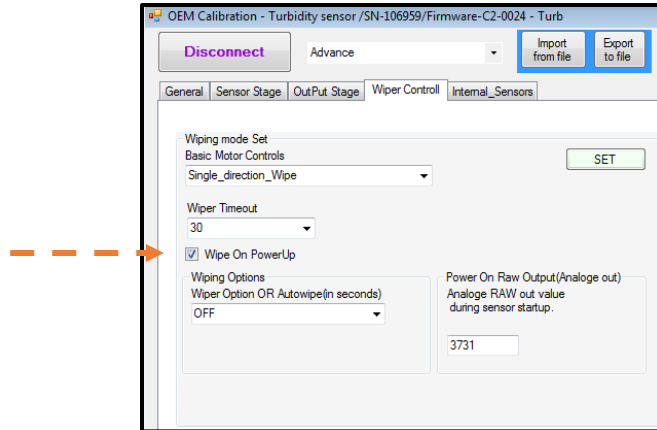


Subconn Wire Color	Wire Outputs	Calibration Module Connection
Black	Power GND	Slot 2
White	SDI-12 Data	N/A
Red	10 to 30V DC power	Slot 1
Green	4-20mA loop to power GND	N/A
Orange	Voltage Out	N/A
Blue	Calibration Communication Data	Slot 6

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Connect to the NEP5000 Turbidity Sensor and use the OEM Calibration software to enable the “Wipe on PowerUp” option.

This ensures that the optics on the sensor are cleared before each new reading is requested from the X2, which allows for the most accurate measurements.



Wiring

For compatibility, sensors must be connected to a female 6-pin wet mateable cable (MCIL-6-FS).

The flying lead for the MCIL-6-FS must be connected to a UW-FWP with the pin configuration in the table below.



Observator Sensor Pin Number	MCIL-6-FS Socket Number	Observator Pin Signal	MCIL-6-FS* Wire Color	J Pin
1	1	Power GND	Orange	J2
2	2	SDI-12 Data	Black	J6
3	3	10 to 30 VDC power	Red	J5

*If the MCIL wire color is not listed, it is unused in the connection.

For additional information, please read the Observator sensor manual located on the Fondriest Environmental website.

https://www.fondriest.com/pdf/observator_nep5000_manual.pdf