

## 110-WS-25 Quick Start

### Hardware Installation

Select a level area on firm ground that will support the tripod. The area should be away from buildings or trees that block air movement. A grassy area is preferred as sunlight reflected from gravel or pavement could elevate the temperature readings. If high winds are expected the legs of the tripod must be secured to prevent tipping over.

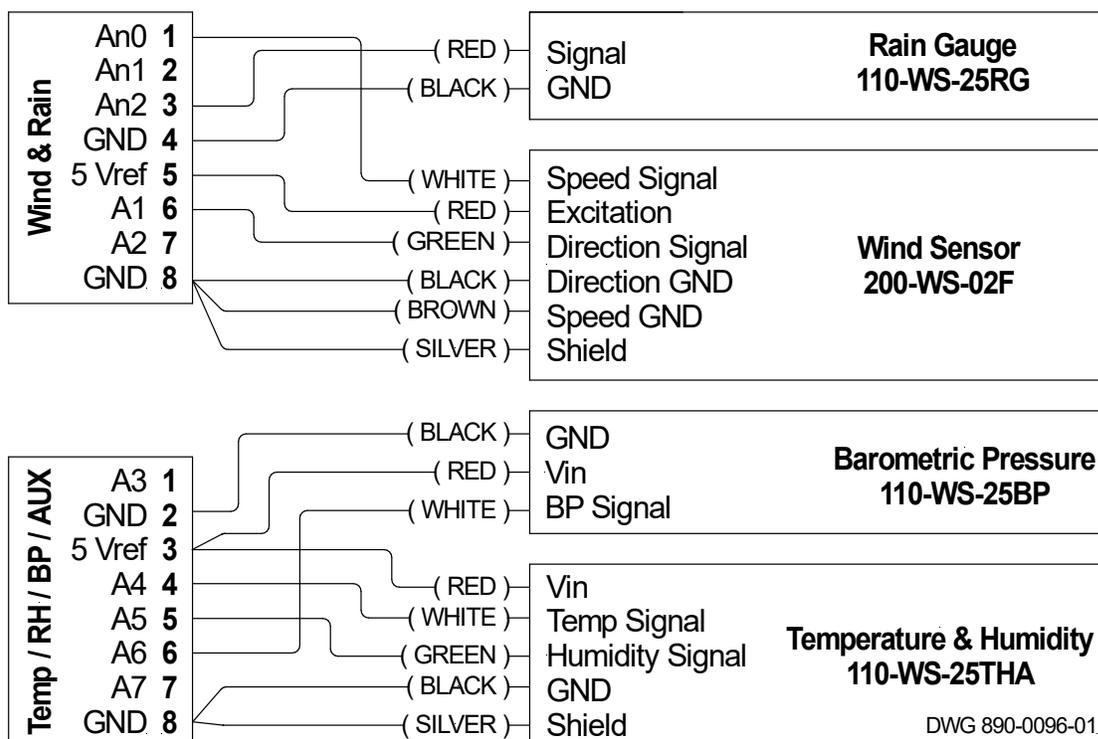
1. Open the tripod to the fullest extent and secure it.
2. Assemble the wind sensor on the swaged end of the 5' mast. Secure it with the two screws on the base of the sensor. Notice the NORTH label on the base of the wind sensor.
3. Assemble the mast to the tripod. Rotate the mast until the NORTH label points north. Tighten the mounting screws on the tripod.
4. Mount the temperature/humidity sensor on the mast.
5. Install the rain gauge on the opposite side of the mast.
6. The logger and barometric pressure sensor must be protected from the weather (install indoors).



110-WS-25 Weather Station

### Wiring

Route the cables from the weather station to the back of the logger. If any cables must be extended please refer to the User Manual (Appendix A) for maximum lengths allowable.

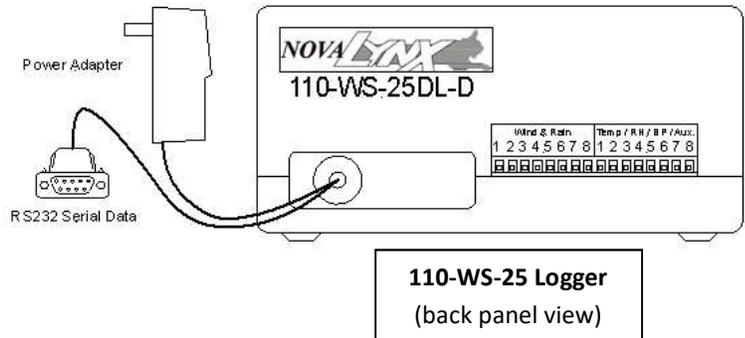


DWG 890-0096-01.

# Instruction Sheet

## Power & Communications

1. Connect the Power Adapter to a 100-240 Vac receptacle to turn on the logger.
2. Connect the RS232 cable to your computer. If your computer does not have a DB9 serial port, obtain a RS232 to USB adapter. (Novalynx 110-WS-16USB sold separately)



## Logger Status

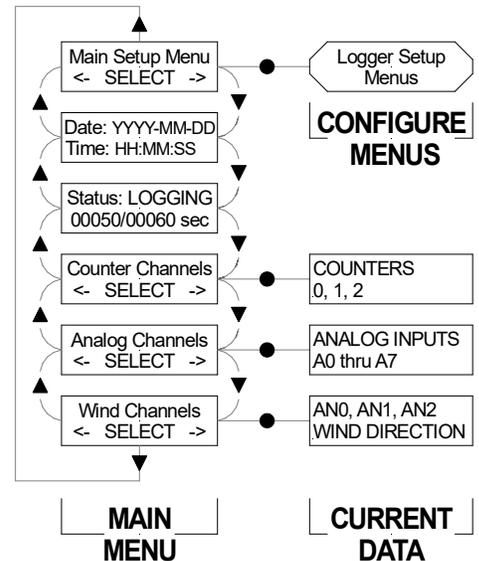
Use the up and down buttons below the display to toggle through the Main Menu.

1. Check the Date and Time.
2. Check the logging interval, which is expressed in seconds.
3. If correct, insert the memory card to begin logging. *Note: serial data will be output regardless of whether the memory card is installed or not.*

## View Sensor Data on the Logger

Scroll to Counter Channels, Analog Channels or Wind Channels and then press the SELECT button. Within the sub-menus, press the up and down buttons to view sensor data.

- Counter Channels      2: Rain Today
- Analog Channels      A0: Input Voltage, A4: Temperature, A5: Humidity, A6: Barometric Pressure
- Wind Channels      AN0: Wind Speed/Max, Wind Direction



## View Sensor Data on a Computer

View data in 110-WS-25STR Graphical Display Software (sold separately) or in a terminal program such as HyperTerminal, Putty, or TeraTerm. Select the COM port, 9600 Baud, 8 data bits, no parity, no flow control. Sample data: 2021-01-02 01:58:22,1.9,7.0,4739,,,,,,,,,0.00,244,12.49,,,,,10.3,82.5,,82.185,157,W603 ,1,0,155

Tera Term: Serial port setup

Port:	COM3
Baud rate:	9600
Data:	8 bit
Parity:	none
Stop:	1 bit
Flow control:	none

## Download Data

1. Press inwards on the data card to release it.
2. Insert the data card into the USB card reader (included). Connect the card reader to a computer.
3. Open File Explorer to access the contents of the memory card. Copy any files you want to keep. *Note: The logger creates a new file every day, with the date code as the name (YYYYMMDD.csv).*
4. Open the file in a spreadsheet. It may be necessary to invoke "Text to Columns" to get the data to fall into separate columns. The logger does not pre-pend column headings, so you will need to create headings and copy/paste them into the spreadsheet to make it easier to interpret the data.

	Wind Speed, Wind Gust, Direction, and Pulses											Analog Voltages from a Variety of Inputs										
	Anemometer 0			Anemometer 1			Anemometer 2			Counter 0	Counter 1	Counter 2	Wind Direction	A0, 10bits	A1, 10bits	A2, 10bits	A3, 10bits	A4, 12bits	A5, 12bits	A6, 12bits	A7, 12bits	CRC
3	Date Time	Speed	Gust	Pulse-Count	Speed	Gust	Pulse-Count	Speed	Gust	Pulse-Count												
4	9/17/2019 0:00	0	0	0								0	58	12.18				12.9	28	5.569		53
5	9/17/2019 0:01	0	0	0								0	58	12.18				11.8	27.4	5.53		25
6	9/17/2019 0:02	0	0	0								0	58	12.14				10.9	27	5.498		190