

Vaisala WXT530 Series - Weather Transmitter

The Vaisala WXT530 is a series of weather transmitters that provides six of the most important weather parameters, which are air pressure, temperature, humidity, rainfall, wind speed and direction through various combinations.

The WXT530 series of weather transmitters are compatible with the NexSens X2 data logger and use the SDI-12 communication protocol.

After wiring and configuring the sensor according to this document, proceed through the [X2 Manual](#) for a complete setup with the X2 data logger.



Connecting Vaisala WXT530 Series - Weather Transmitter

Connectorization

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

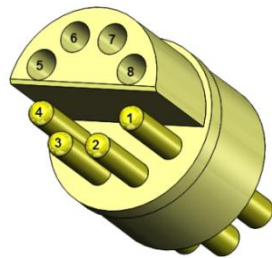
- Factory installed UW connectors
- UW Plug and Flying Lead cable
- UW Field Wireable Plug

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

| Signal | UW-8P | Color | UW-FWP | UW-FWP |
|-----------|-------|--------|-----------|----------------|
| RS-232 Tx | 1 | Orange | RS-232 Tx | J ¹ |
| Ground | 2 | Black | Ground | J ² |
| RS-232 Rx | 3 | Yellow | RS-232 Rx | J ³ |
| 5V | 4 | White | 5V | J ⁴ |
| 12V | 5 | Red | 12V | J ⁵ |
| SDI-12 | 6 | Brown | SDI-12 | J ⁶ |
| RS-485 B | 7 | Blue | RS-485 B | J ⁷ |
| RS-485 A | 8 | Green | RS-485 A | J ⁸ |



UW to Flying Lead Cable



UW-8P



UW Field Wireable Plug



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Detailed information on the Vaisala WXT530 series sensors can be found in the manufacturer's manual.

Vaisala WXT530-series Manual

https://www.fondriest.com/pdf/vaisala_wxt530_manual.pdf

