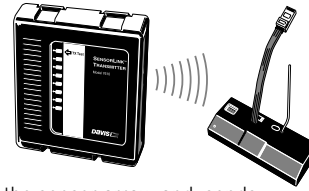


SENSORLINK™ TRANSMITTER & RECEIVER



7610/7611
COMMUNICATIONS

The SensorLink Transmitter and Receiver allow data from the outdoor sensors to be transmitted to the display console without any connecting wires. The two are backward compatible with Davis Monitor II and Wizard III weather stations. The transmitter plugs into the sensor array, and sends data using an FCC-certified, license-free radio frequency to the receiver plugged into the console. User-selectable ID codes allow up to eight stations to coexist in the same geographic area; or, alternatively, allow one transmitter to send the same data to multiple receivers. The energy-efficient transmitter is able to run for extended periods on battery or solar power. A WeatherLink may be added to the station for data logging and communication with a computer.

SPECIFICATIONS

General

Receiver

Operating Temperature	-5° to 140° F (-20° to 60° C)
Consumption	25 mA (gets power from host console)
Housing Material	Black ABS plastic
Dimensions	4.4" x 1.75" x 0.5" (112 mm x 45 mm x 13 mm)
Weight	2 oz. (0.06 kg)

Transmitter

Operating Temperature	-40° to 140° F (-40° to 60° C)
Power Options	CR-123 Lithium Battery, or 6-12 VDC power adapter, or Davis Solar Charger
Consumption	120 µA
Life on battery power	1 year on 2 CR-123 camera batteries
Life on solar power	Will operate indefinitely
Housing Material	Black ABS plastic
Dimensions	5.75" x 5.9" x 1.25" (146 mm x 150 mm x 32 mm)
Weight	8 oz. (0.23 kg)

Transmit / Receive Frequency 916.5 MHz

ID Codes Available 8

Output Power FCC-certified low power, less than 1 mW (does not require a station license)

Range

Line of Sight	400' (130 m)
Through Walls	100 to 200' (30m to 60 m)

Transmitter Inputs

Outside Temperature (Air) (uses proprietary Davis sensor)

Connector	RJ-11 (shared with outside humidity, if humidity sensor is installed)
Accuracy	±1.5°F (±0.75°C) (applies to sensor output as converted by Davis weather station consoles)
Update Interval	10 seconds, Console updates display every 16 seconds

Outside Relative Humidity (uses proprietary Davis sensor)

Connector	RJ-11 (shared with outside temperature)
Accuracy	±5% (applies to sensor output as converted by Davis weather station consoles)
Update Interval	1 minute

Wind Speed (uses proprietary Davis sensor, or reed switch type sensor)

Connector	RJ-11 (shared with wind direction)
Accuracy	±5% (applies to sensor output as converted by Davis weather station consoles)
Update Interval	2.5 seconds

Wind Direction (uses proprietary Davis sensor)

Connector	RJ-11 (shared with wind speed)
Accuracy	±7%
Update Interval	2.5 seconds

Rainfall	(uses proprietary Davis sensor or tipping bucket type sensor)
Connector	RJ-11
Accuracy	±(2%+1 count) for rates from 0.01" to 2" (0.2 mm to 50 mm) per hour ±(3%+1 count) for rates from 2" to 4" (50 mm to 100 mm) per hour (applies to sensor output as converted by Davis weather station consoles)
Update Interval	10 seconds, rain counts are saved in the transmitter until successfully received by the receiver

CONNECTION DIAGRAM

