WIFI-1WIRE

Wireless Wi-Fi Enabled Temperature and Humidity Sensor

Applications

Fine tune your environment to:

o Monitor a facility for changes in temperature and humidity

o Meet energy efficiency goals

o Monitor conditions in a wide variety of spaces, including refrigerators, freezers, ovens, dryers, warehouses, heating and cooling ducts, and data cabinets

Key Features

o Transmits on your existing Wi-Fi network

o A sensor designed with security in mind:

- Only allows one-way communications

- Supports WPA/WPA2-PSK encryption

- Encrypted data storage for network and configuration information

o Supports DHCP or static IPv4 addresses and static IPv6 addresses

o Configurable transmission rate

o Optional calculated dew point when used with the WiNG-MGR

Monitor Temperature and Humidity via a Wi-Fi Network

Probe-style sensors on a 25' leader cable allow you to leverage your existing Wi-Fi network to monitor environmental conditions in every corner - hidden or visible - of your facility.

What Sets RLE's WIFI-1WIRE Apart?

o **It's wireless and battery powered.** No wires for power; no wires for data transmission.

o **Industry-leading battery life.** Sensor batteries last up to five years with transmission every five minutes.

o **Compatible with RLE's WiNG-MGR.** Populates seamlessly into the WiNG-MGR's user interface, which also provides an optional calculated dew point reading.

o **BMS integration.** Transmits temperature and humidity information to a BMS using an existing wireless network.

o **Affordability and reliability that are second to none.** The WIFI-1WIRE features the reliability you've come to expect from RLE at a very competitive price point.

WIFI-1WIRE • Compatible with RLE's WiNG-MGR and any BMS system capable of receiving a UDP packet.

Product Codes	
WIFI-1WIRE	Wi-Fi wireless transmitter for use with RLE's 1-WIRE sensors; requires 1WIRE-T or 1WIRE-TH; requires USB-A to Micro B cable for configuration
1WIRE-TS	Temperature sensor; 25ft (7.62m) leader cable with RJ-11 connector; for use with the F200, BMS-1WIRE, or WIFI-1WIRE
1WIRE-THS	Temperature/Humidity sensor; 25ft (7.62m) leader cable with RJ-11 connector; for use with the F200, BMS-1WIRE, or WIFI-1WIRE
MICRO-USB-3FT	USB-A to Micro B Cable; 3ft (1m); Black; Use with WIFI sensors for sensor configuration

WIFI-1WIRE Technical Specifications	
Power	7.2V (two 3.6V AA lithium batteries)
Battery Life When Used With 1WIRE-TS IPv4 IPv6	Battery life varies based on Wi-Fi signal strength and access point performance Up to 5 years at 5 minute transmission intervals Up to 5 years at 15 minute transmission intervals
Battery Life When Used With 1WIRE-THS IPv4 IPv6	Battery life varies based on Wi-Fi signal strength and access point performance Up to 7 years at 5 minute transmission intervals Up to 5 years at 15 minute transmission intervals
Shelf Life	10 years in quiescent mode with battery installed
Connectivity Wi-Fi IP	2.4 Ghz 802.11b/g/n, supports WEP, WPA (TKIP) or WPA2 (AES) encryption IPv4 static or DHCP; IPv6 static
Transmission Interval	1-30 minutes (configurable)
Operating Environment Temperature Humidity Altitude	-13°F to 185°F (-25°C - 85°C) 0% to 90% RH (Non-condensing) -200ft to 15,000ft (-70m to 4572m) max.
Mounting	Free standing, zip ties, screw and keyhole - spaced 2.5" (6.4cm), junction box - two screws spaced 3.28" (8.3cm)
Dimensions and Weight	4.4"L x 2.5"W x 1.5"H (11.2cmL x 6.4cmW x 3.8cmH), 0.2lb (0.10kg)
Certifications	EN-61326-1:2013, EN 301 489-1 V2.1.1, EN 301 489-17 V 3.1.1, Subpart B of Part 15 of FCC Rules for Class A digital devices, ANSI/UL 61010-1:2012, CAN/CSA-C22.2 No. 61010-1:2012 (3rd Edition), EN 61010-1:2010 (3rd Edition), and IEC 61010-1:2010. FCC ID: Z64-CC3220MOD IC: 451I-CC3120MOD

1WIRE-TS Technical Specifications	
Temperature Range	-67°F to 257°F (-55°C to 125°C)
Accuracy (Typical)	+/- 0.36°F (0.2°C)
Connector	RJ11
Cable Length	25' (7.6m) leader cable included. Leader cable is extendable up to 100' with addition of up to 75' of standard RJ11 cable.

1WIRE-TS
Temperature Sensor

1WIRE-THS Technical Specifications	
Temperature Range	-40°F to 257°F (-40°C to 125°C)
Relative Humidity Range	5% to 90% RH, non-condensing
Accuracy (Typical)	+/- 0.36°F (0.2°C) +/- 2% RH
Connector	RJ11
Cable Length	25' (7.6m) leader cable included. Leader cable is extendable up to 100' with addition of up to 75' of standard RJ11 cable.

1WIRE-THS
Temperature/Humidity Sensor