

NETWORK & WIRELESS

FRONTIER 2.0 WIRELESS DUCT TEMPERATURE SENSOR DT2630

DESCRIPTION

The **DT2630** is a battery operated spread spectrum wireless duct temperature sensor. The sensor is encapsulated in a 0.25" OD 304 stainless steel probe with various probe lengths (4", 6", 8", 12" & 18") available. Each sensor is configured from the factory with a unique transmitter ID. Frontier 2.0 wireless sensors utilize Spread Spectrum Radio technology.

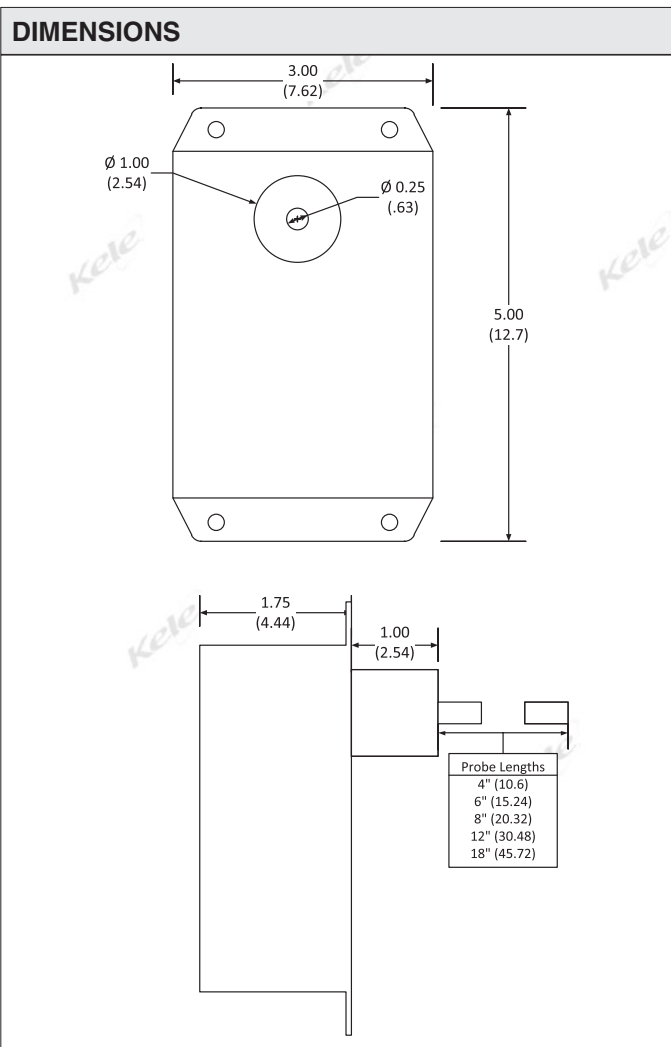
A Data-Link LED is used to confirm the receiver has received the data transmission. This eliminates the need for special wireless installation equipment or tools and allows for quick installation.



DT2630

FEATURES

- **Battery included**
- **No calibration required**
- **No wiring needed**
- **Easy to install**
- **Various probe lengths**
- **Battery powered sensors**
- **Mesh Network - easy to install and relocate sensors without additional wireless installation tools**
- **Sensor Data-Link LED confirms connection with Frontier 2.0 receivers**
- **Long battery life (approximately 4 to 5 years) with standard models**
- **Low battery LED + remote low battery alarm notification**
- **Reliable Spread Spectrum technology**



13

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SPECIFICATIONS

Battery	Lithium 3.0V 1400 mAh (Duracell DL123A)
Frequency	923.58 MHz
Probe Length	4", 6", 8", 12", 18" (10.6, 15.24, 20.32, 30.48 cm)
Temperature Range	
DT2630A	25° to 150°F, (-3° to 65°C)
DT2630B	-40° to 160°F (-40° to 71°C)
Accuracy	±1°F
Resolution	12 Bit
Transmission Power	11 dBm
Range	1 mile (line-of-sight)
Indoor	200 to 500 ft
Operating Temperature	-40° to 160°F (-40° to 71°C)
Operating Humidity	5 to 95% RH (non-condensing)
Dimensions	1.75"H x 3"W x 5"D, Probe Ø 0.25" (4.44 x 7.92 x 14.6 cm), (Ø 0.63 cm)
Weight	1.2 lb (0.54 kg)
Approvals	FCC certified
Warranty	1 year



INSTALLATION

CAUTION:

Sensors, repeaters and receivers should NOT be installed in the following areas:

- Inside metal enclosure or panel
 - Inside or immediately next to elevator shaft or elevator banks
 - In front of or immediately next to large trees or a large body of water
- Transmission distance and performance will be drastically reduced.

CAUTION:

Do not use this product in any safety related applications where human life may be affected.

Wireless duct sensors should be installed within 200 to 500 feet of the receiver. RR2552 signal repeaters can be installed as to increase transmission distance between sensors and receivers.

To select the proper sensor location, first install and power the receiver. Observing polarity, insert the battery into the sensor to activate it. The mesh networked Frontier 2.0 system does not require any additional wireless equipment to determine the proper location of the sensors.

While the sensor is attempting to connect to the receiver, the Data-Link LED will blink rapidly 8-10 times every 10 seconds. Once a connection has been established, the Data-Link LED will blink once to indicate the data transmission has been received successfully. The Data-Link LED will continue to blink once for every data transmission. The data transmission rate is programmed into the sensor (normally 1 minute intervals). To manually initiate a data transmission press the push button switch located by the negative terminal of the battery.

Install the duct sensor through a 1" opening in the side of the duct. Since the sensor is located at the tip of the probe, consideration should be made to place the tip of the probe in the middle of the airflow. Mount the plastic housing of the sensor onto the ductwork using four (4) sheet metal screws. Locate the sensor at a straight section of the duct and away from heating, cooling or humidifying elements.

Locate and record the duct sensor TXID numbers located on a label on the inside of the enclosure cover. This information will be needed when setting up the receiver.

The sensor has a Low Battery LED that will start to blink continuously when the battery voltage is low. A low battery signal is also sent to the receiver for remote indication that the battery should be replaced. If the battery is not replaced in approximately 2 months the battery voltage will become so low that the Low Battery and Data-Link LEDs will not blink. Replace the battery and the Data-Link LED will start blinking while the sensor is re-establishing communications with the receiver. Attach the cover of the duct sensor by installing the four screws to complete the installation.

ORDERING INFORMATION

MODEL	DESCRIPTION
DT2630	Wireless Duct Temperature Sensor
	Temperature ranges
A	25° to 150°F
B	-40° to 160°F
	Enclosure
	Standard black case
E	NEMA4 enclosure
	Probe lengths
-04	4" probe
-06	6" probe
-08	8" probe
-12	12" probe
-18	18" probe

DT2630 - A - -04

Example: DT2630A-04 Duct temperature sensor with 4" probe 25° to 150°F.