DT2630
Duct Temperature

NEMA 4X

Standard

The DT2630 is a battery operated wireless duct sensor that gives the flexibility and ease of installation for monitoring duct temperatures wirelessly using 900MHz spread spectrum technology rather than costly hardwire installations. The single point probe is 0.25" O.D., made of 304 stainless steel, and is available in 4", 6", 8", 12", and 18" lengths to fit most applications. The DT2630 can be ordered with the standard enclosure or NEMA 4X enclosure depending on the specifications required. The DT2630 will send the temperature wirelessly to the RM2432D receiver that converts the wireless signal to voltage input for use with a DDC controller, or to a transceiver which will send the data to a BAS using BACnet, Modbus, or Lonworks protocol. Transmission distance in a typical building is 200-300 feet horizontal depending on the layout and construction of the building, and one floor above and one floor below the transceiver. Sensor distance and reliability can be increased with the addition of a RR2552B(s) repeater.

Applications: Museums, Churches, Historical Buildings & New Construction

The DT2630 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

PRODUCT SPECIFICATIONS

Input Voltage:	Battery; 1 (Duracell DL123A), Lithium 3V 1400mAh 45 mA maximum
Battery Life:	2-3 years typical
Operating Temperature Range:	14 to 140ºF (-10 to 60ºC)
Operating Humidity Range:	5 to 65%, Non-condensing
Storage Temperature Range:	**Temperature:** 0 to 176ºF (-17 to 80ºC)	**Humidity:** 5 to 65%, Non-condensing
Sensor Temperature Range:	-40 to 200ºF (-40 to 93ºC)
Accuracy:	+/- 1ºF (+/- 0.555ºC) 12 bit resolution
Probe Material:	304 Stainless Steel
Probe Diameter:	0.25" (6.35 mm)
Probe Lengths:	4", 6", 8", 12" & 18"
Fitting / Flammability Rating:	ST801A Polyamide 66 Plastic (PA66) toughened "Zytel", UL94-HB
Data Protocol:	IEEE 802.15.4-2003/2006
RF Characteristics:	900 MHz, Operating Frequency 10 channels between 902 – 928 MHz
	Transmitter Power: 11 dBm	**Receiver Sensitivity:** -11 dBm
Sensor Data Transmission Time:	75 seconds (default)	300 seconds (optional)
Transmission Distance:	200 – 300 ft horizontally depending on building type and construction, and typically one floor above and below the transceiver vertically
**Enclosure Material	Flammability Rating:**	**Standard:** ABS Plastic	UL94
	NEMA 4X: Polycarbonate Plastic	UL94-HB
Product Dimensions:	**Standard:** (L) 5.77" (146.56 mm) x (W) 3.19" (81.03 mm) x (H) 1.88" (47.75 mm)
	NEMA 4X: (L) 4.52" (114.81 mm) x (W) 3.54" (89.92 mm) x (H) 2.16" (54.86 mm)
Product Weight:	**DT2630A-04:** 0.99 lbs (0.45 kg) **DT2630AE-04:** 2.82 lbs (1.28 kg)
	DT2630A-06: 1.00 lbs (0.45 kg) **DT2630AE-06:** 2.83 lbs (1.28 kg)
	DT2630A-08: 1.01 lbs (0.46 kg) **DT2630AE-08:** 2.84 lbs (1.29 kg)
	DT2630A-12: 1.03 lbs (0.47 kg) **DT2630AE-12:** 2.86 lbs (1.30 kg)
	DT2630A-18: 1.05 lbs (0.48 kg) **DT2630AE-18:** 2.88 lbs (1.31 kg)

RoHS COMPLIANT 2002/95/EC

DIMENSIONAL DRAWING

Standard

3.19" (81.03mm)

5.77" (146.56mm)

3.19" (81.03mm)

Probe Available in 4", 6", 8", 12" or 18" Lengths

Ø.25" (6.35mm)

1.88" (47.75mm)

NEMA 4X

3.54" (89.92mm)

4.52" (114.81mm)

Probe Available in 4", 6", 8", 12" or 18" Lengths

Ø.25" (6.35mm)

2.16" (54.86mm)

Front View	Right View	Top View
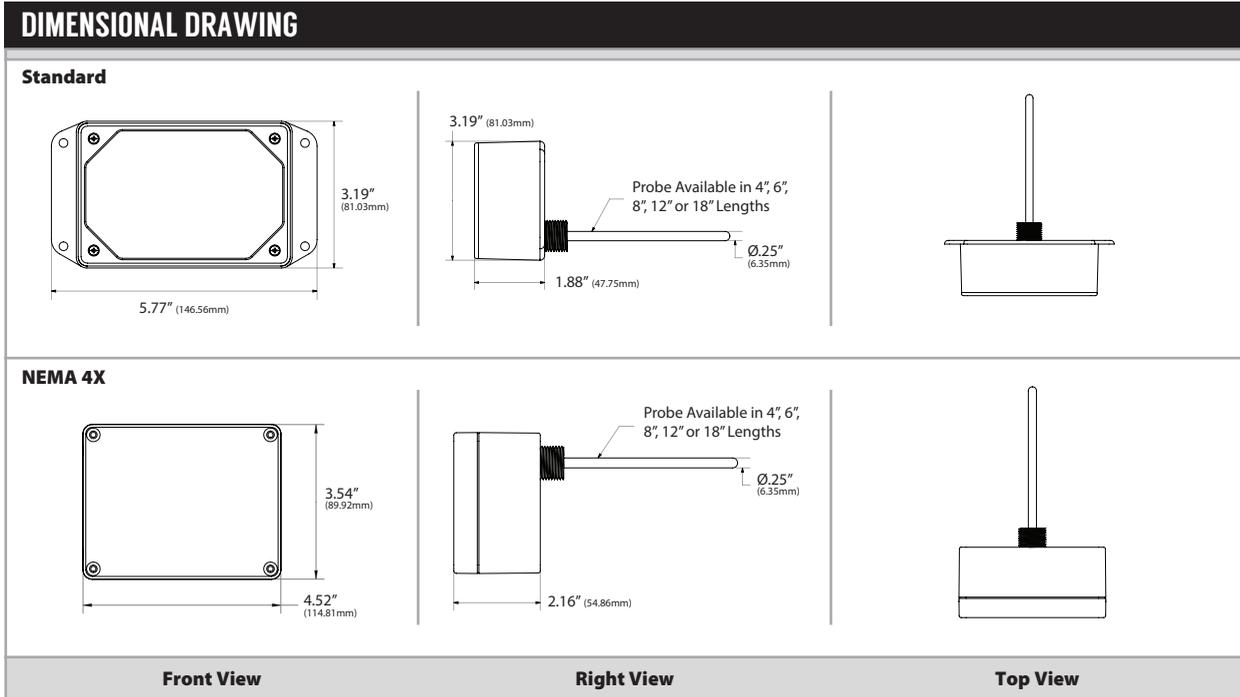
STANDARD ORDERING

Model # Example: **DT2630A-04** -OR- **131022**

Model #	Item #	Description
DT2630A-04	131022	Wireless Duct Temperature Sensor (4"), Standard Enclosure
DT2630A-04-300	141063	Wireless Duct Temperature Sensor (4"), Standard Enclosure, 300 Second Interval
DT2630A-06	131023	Wireless Duct Temperature Sensor (6"), Standard Enclosure
DT2630A-08	131024	Wireless Duct Temperature Sensor (8"), Standard Enclosure
DT2630AE-04	131027	Wireless Duct Temperature Sensor (4"), NEMA 4X Enclosure
DT2630AE-18	131031	Wireless Duct Temperature Sensor (18"), NEMA 4X Enclosure

CUSTOM ORDERING

Model # Example: **DT2630** | **A** | **04** | **300**
A. | B. | C. | D.

		MODEL #
A. Sensor Series *No Selection Required*	DT2630	**DT2630**
B. Enclosure *Select One (1)*	**A** = Standard Enclosure (Default) | **AE** = NEMA 4X Enclosure	
C. Probe Length *Select One (1)*	**04** = 4" Probe | **06** = 6" Probe | **08** = 8" Probe | **12** = 12" Probe | **18** = 18" Probe	
D. Transmission Interval *Select One (1)*	**----** = Every 75 Seconds (Default) | **300** = Every 300 Seconds	