

FEATURES

- > Accurate temperature sensor: +/- 0.2°C
- > Wide temperature range: -20°C to + 60°C
- > Relative humidity accuracy: +/- 3% (normal range)
- Battery life greater than 10 years (30 minute reporting interval)
- > On-board data logging of up to 10,000 data points
- > Vented ABS plastic enclosure
- > Fully wireless communications
- > Wireless range up to 300m (LoS)
- > Dimensions (LxWxH): 71mm x 71mm x 27mm
- > Self-healing mesh network
- > 2.4GHz ISM band ZigBee® wireless radio
- > Fully secure communications: 128-bit AES encryption
- > Over-the-air software upgrade capability
- > Easy to install and commission; stick on/wall mountable







INTRODUCTION

The TES-11, a fully wireless, accurate ambient Temperature Sensor, can record temperature data at predefined intervals and make this data available via EpiSensor's NGR-30 Smart Gateway. The sensor has on-board wireless communications and is housed in a vented ABS enclosure. The HTS-10 Temperature Sensor also includes a relative humidity sensor.

At 30 minute reporting intervals, the battery can last up to 10 years under normal conditions. The enclosure measures just 71mm x 71mm x 27mm and can be wall mounted using keyhole slots or sticky pads.

APPLICATIONS

The TES-11 and HTS-10 ambient Wireless Temperature Sensors are designed for remotely monitoring temperature and humidity for environmental monitoring and energy management applications.

These products are designed for monitoring ambient temperature and relative humidity in a wide variety of environments such as warehouses, clean rooms, pharmaceutical manufacturing plants, residential or commercial buildings, data centers, hotels and offices, as well as in manufacturing processes that require temperature- or humidity-

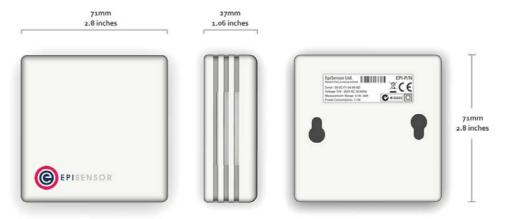




Wireless Temperature/Humidity Sensor TES-11/HTS-10

data sheet

SPECIFICATIONS



Dimensions for TES-11 / HTS-10 Wireless Temperature / Humidity Sensor

Ordering Codes	TES-11 HTS-10	Temperature Temperature & Humidity
Humidity (HTS-10 only)	Full Humidity Range	0% RH to 100% RH
	Normal Humidity Range	11% RH to 89% RH
	RH Accuracy (normal range)	+/- 3% RH
	Humidity Resolution	0.1%
	Hysteresis	2% RH
	Repeatability	+/- 0.5% RH
Temperature	Normal Temperature Range	-20°C to +60°C
	Full Temperature Range	-40°C to +85°C
	Temperature Accuracy (normal range)	+/- 0.2°C
	Temperatur Accuracy (full range)	+/- 0.4°C
	Temperature Resolution	0.1°C
Battery	Lifetime	up to 10 years (30 min reporting interval)
	Туре	Lithium Thionyl Chloride (permanent)
Certification	Certification	CE
Wireless Technology	Radio Technology	ZigBee Pro
	Radio Frequency	2.4 Ghz ISM Band
	Channels	16 Channels (11 - 26)
	Max Tx Power	+3dBm (+5dBm in Boost Mode)
	Rx Sensitivity	-98dBm @ 1% Packet Error Rate
	Data Rate	up to 250 kbits/sec
Wireless Range	Indoor Range	up to 50m
	Outdoor Range	up to 300m (direct line of sight)
Security	Encryption	128-bit AES Encryption
Physical	Dimensions (LxWxH)	71 x 71 x 27 mm
	Weight	150g
	Mounting	Wall Mounting Holes
	Enclosure	ABS Plastic, Vented
	Operating Temperature	-40°C to +85°C
	Operating Humidity	up to 100% (non-condensing)



