WiFi-TH

Internal Dual Channel WiFi Temperature & Humidity Sensor

files thru the air

70mm

82mm

22mm

- **Wirelessly stream and view data via WiFi on PC or FilesThruTheAir™ Cloud**

- **Easy sensor set-up using free PC software application**

- **View and analyse multiple sensors, including graphing of historic data**

- **Temperature -20 to +60°C (-4 to +140°F) and humidity measurement range**

- **Configurable high and low alarms with indicator**

- **Sensor memory stores all data even if WiFi is temporarily disconnected**

The WiFi-TH in the FilesThruTheAir™ range of sensors measures the temperature and humidity of the environment in which it is situated. This sensor is typically accurate to ±0.3°C (+5 to +60°C) and ±2.0%RH (20 to 80%RH @ 25°C). Data is streamed wirelessly over any WiFi network and can be viewed on a PC using our free software package. or on the FilesThruTheAir™ Cloud.

During configuration, the sensor will search for an existing wireless network whilst physically connected to the PC. It can then be placed anywhere within range of the network. If the sensor temporarily loses connectivity with the network, it will log readings until it is able to communicate again with the PC application or FilesThruTheAir™ Cloud (max 30 days at 10 second sample interval). Although the FilesThruTheAir™ WiFi sensors have an impressive range this can be increased by using WiFi extenders available from www.filesthrutheair.com.

The WiFi-TH is a battery powered device with an internal rechargeable lithium polymer battery.

The LCD display includes several features including Max and Min readings and indicators for low battery, alarms, WiFi connection and signal strength.

The sensor is IEEE 802.11b compliant, supports WEP, WPA/WPA2 encryption and enterprise networks *.

Setting up your WiFi-TH is easy, using our free PC software. Choose to store your data locally on the PC, or make it universally accessible on the FilesThruTheAir™ Cloud. Whichever you choose, you'll be able to view historic data in graphs or tables, and export it in various formats. At any time, you can change the sensor settings, including Name, °C/°F, Sample Rate, and High/Low alarm levels. Our software and firmware updates are available for free from www.filesthrutheair.com/support .

WiFi-TH has a protection rating of IP55. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided.

A range of recommended accessories, including ADSL routers and USB mains chargers are available from www.filesthrutheair.com.

*MS-CHAPv2, PEAP, EAP-FAST, EAP-TTLS

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Specifications	Minimum	Typical	Maximum	Unit
Battery life		>6*		Months
USB supply voltage	4.5	5	5.5	Vdc
Operating temperature range	-20 (-4)		+60 (+140)	°C (°F)
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-20 (-4)		+60 (+140)	°C (°F)
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.5		°C
Temperature accuracy		±0.3°C (+5 to +60°C)	±0.8°C (-20 to +60°C)	°C
Humidity measurement range	0		100	%RH
Humidity measurement resolution		1.0		%RH
Humidity display resolution		1.0		%RH
Humidity accuracy (@ 25°C)		±2%RH (10 to 90%RH)	±5.0%RH (0 to 100%RH)	%RH

Warning - do not exceed operating temperatures

WiFi-TH XL

This product is available with a large capacity battery. The WiFi-TH XL has double the battery life of the standard WiFi-TH. Dimensions are shown, all other specifications remain unchanged.

Specifications	Minimum	Typical	Maximum	Unit
Battery life		>12*		Months

*Battery Life and Power Supply

The product will arrive partly charged but ideally you should charge it for 24 hours before use for optimum performance. The battery can be recharged (unit must be between 0 - 40 °C) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or USB battery pack. Readings may be affected while the internal battery is being charged. However, once charged, continued connection of the charger will have no effect.

Battery life is dependent on: transmission period, WiFi encryption method, WiFi encryption key rotation frequency (determined by the router/access point), signal strength between router/access point and WiFi device, presence volume and type of WiFi traffic from other devices, sample rate and operating temperature.

Specifications liable to change without prior warning