Wireless Alert PRO THP+

High-Accuracy Temperature & Humidity Limit Alert Sensor

-30 °C to +80 °C Temperature Range

0 %RH to 100 %RH Humidity Range

°C °F %RH

- High-accuracy temperature and humidity limit alert sensor from the FilesThruTheAir Wireless Alert PRO range
- Configurable high and low alert limits
- Monitor temperature and humidity in occupied spaces, storage areas and many other applications
- Wi-Fi-connected
- Get notified and view the latest status of your device using the FilesThruTheAir app
- Receive email alerts and scheduled status reports
- Flashing alert indicator



Download the FilesThruTheAir app for free

Available on the App Store

ANDROID APP ON Google play

FilesThruTheAir's WA-PRO-THP+ provides alert notifications when user-selected high and low temperature or humidity limits are breached. Power this device via its USB-C socket and set it up using the free FilesThruTheAir app. Configuration options include connection to a Wi-Fi network, temperature and humidity alert limit selection, and notification options. Notifications can be pushed direct to your smartphone or sent by email. Emailed scheduled summary reports detailing minimum, maximum and average readings, power status, number of alerts, and total time spent in alert are also available. A quick look at the FilesThruTheAir app dashboard will show the alert status and last reported reading of any devices connected to your account.

Wireless Alert PRO THP+

Specification

WA-PRO-THP+	Minimum	Typical	Maximum	Unit
Temperature Measurement Range		-30 to +80 (-22 to +176)		˚C (˚F)
Temperature Measurement Resolution		0.01 (0.01)		˚C (˚F)
Temperature Measurement Accuracy [1]		±0.2 (+5 to +60) (±0.4 (+41 to +140))	±0.8 (-20 to +60) (±1.6 (-4 to +140))	˚C (range) (˚F (range))
Device Operating Temperature		-20 to +60°C (-4 to +140°F)		˚C (˚F)
Humidity Measurement Range		0 to 100		%RH
Humidity Measurement Resolution		1		%RH
Humidity Measurement Accuracy (@25˚C) [1]		±1.8 (20 to 80)	±4 (0 to 100)	%RH
Alert Levels		User-configurable, within measurement range stated above		
Response Time		1 minute		
Environmental Conditions		Splash proof - IPX3		
Power Supply		USB-C 5V 1.0A		
Wi-Fi		WPA2/WPA3 Personal, WPA2 Enterprise (MSCHAP/PEAP, TTLS) - 802.11bgn (2.4GHz)		
Product Dimensions		L 61 (2.4) x W 29 (1.14) x D 13 (0.5)		mm (inches)
Probe Dimensions (Without Bracket)		37 x 12 x 8 (1.5 x 0.5 x 0.3)		mm (inches)
Cable Length		2000 (79)		mm (inches)

What's in the Box

Part Number	Description
WA-PRO-THP+	Temperature/Humidity Alert Sensor
WA-PRO-BRACKET	Mounting Bracket and Fixing Screws
WA-PRO-QSG	Quickstart guide
USB-C-2M-WHT	USB-C Cable 2m

Accessories Available

Part Number	Description
EL-SP-TH+	Replacement TH Probe
PSU-5VDC-USB-INTL-WHT	Power Supply
WA-PRO-UPS [2]	UPS / Backup Battery
WA-PRO-THP+ CAL	Calibration Certificate

Wireless Alert PRO Range

Part Number	Description
WA-PRO-T	Wi-Fi-Connected Ambient Temperature Limit Alert (-20 °C to +60 °C)
WA-PRO-T+	Wi-Fi-Connected High-Accuracy Ambient Temperature Limit Alert (-20 °C to +60 °C)
WA-PRO-THP	Wi-Fi-Connected Temperature and Humidity Limit Alert (-30 °C to +80 °C, 0 %RH to 100 %RH)
WA-PRO-THP+	Wi-Fi-Connected High-Accuracy Temperature and Humidity Limit Alert (-30 °C to +80 °C, 0 %RH to 100 %RH)
WA-PRO-TP	Wi-Fi-Connected Temperature Limit Alert (-40 °C to +125 °C)
WA-PRO-TP+	Wi-Fi-Connected High-Accuracy Temperature Limit Alert (-40 °C to +125 °C)
WA-PRO-TC	Wi-Fi-Connected Thermocouple Temperature Limit Alert (0 °C to 200 °C with supplied K Type Thermocouple)
WA-PRO-VAC	Wi-Fi-Connected Vaccine Temperature Limit Alert (-40 °C to +125 °C)
WA-PRO-ULT [2]	Wi-Fi-Connected Ultra-Low Temperature Limit Alert (-100 °C to +100 °C with supplied T Type Thermocouple)
WA-PRO-ULT+ [2]	Wi-Fi-Connected High-Accuracy Ultra-Low Temperature Limit Alert (-100 °C to +100 °C with supplied T Type Thermocouple)
WA-PRO-420 [2]	Wi-Fi-Connected 4-20mA Limit Alert (4 mA to 20 mA)

1) For more detailed specifications, refer to page 3 of this data sheet.
2) Coming soon.

Specifications liable to change without prior warning.

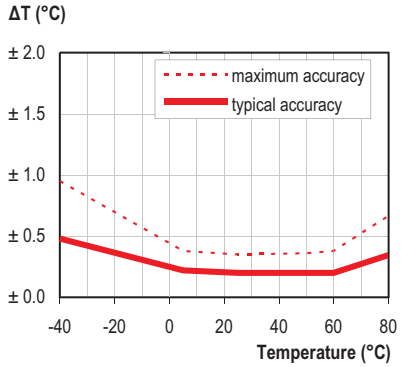
Other Wi-Fi connected products from FilesThruTheAir™

FilesThruTheAir offer a variety of sensors and data loggers.
Visit **www.filesthrutheair.com** to find out if we have something to fit your application.

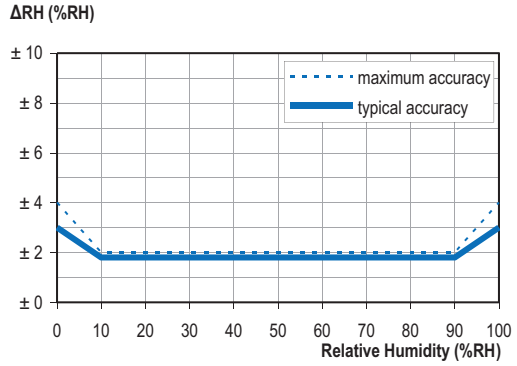
SENSOR ACCURACY & INFORMATION

The sensor in this device is protected in storage and transit by a peelable protective film, this will need to be removed before the device is used.

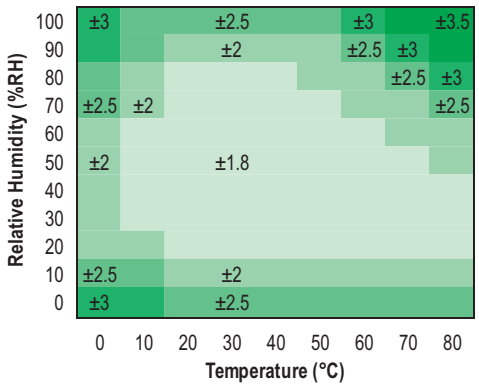
Typical and maximal tolerance for temperature sensor in °C.



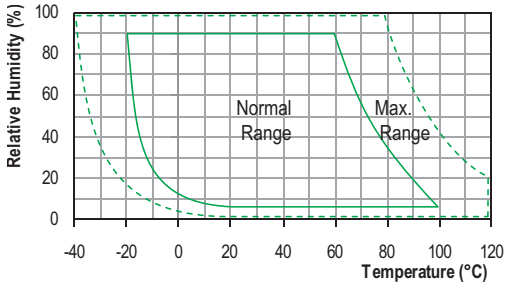
Typical and maximal tolerance at 25°C for relative humidity.



Typical accuracy of relative humidity measurements given in %RH for temperatures 0 to 80°C.



Operating conditions



Long term exposure to humidity levels outside of the 'normal' range may temporarily offset RH measurements (±3%RH after 60 hours). Once returned to less extreme conditions the device will slowly return towards calibration state.

When tracking changes in ambient conditions, the response time of the humidity sensor in your Wireless Alert PRO is approximately 20 minutes to reach 90% of the reading. However, if you are measuring step changes in humidity (for example if calibrating the product) it is advised that you leave the unit for up to four hours to ensure that it has enough time to settle at the new level.

It is worth remembering that the value of relative humidity is of course sensitive to temperature variation. As an example, at a relative humidity of ~90%RH at ambient temperature, a variation in temperature of 1°C will result in a change of up to -5%RH. Therefore when comparing multiple devices or calibrating them, any temperature variations must be considered.

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Ashford Mill, Station Road, Fordingbridge, Hampshire, SP6 1DZ, UK