

WiFi-TP+ Vaccine

External Thermocouple with Glycol Bottle

WiFi TP+ Vaccine Monitoring Kit



- **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**
- **High accuracy glycol buffer probe temperature measurement range -40 to +100°C (-40 to +212°F)**
- **Configurable high and low alarms with indicator**
- **Sensor memory stores all data even if WiFi is temporarily disconnected**

The WiFi-TP+ Vaccine Monitoring Kit brings together our high accuracy WiFi-TP+ sensor and a detachable glycol buffer probe designed specifically for use in monitoring the temperature of vaccines. The high accuracy sensor is typically accurate to $\pm 0.2^{\circ}\text{C}$ (-15 to $+80^{\circ}\text{C}$). Data is streamed wirelessly over any WiFi network and can be viewed locally on a PC using our free software package, or from anywhere, using the FilesThruTheAir™ Cloud.

The glycol buffer probe is designed to provide a buffered response to changes in temperature. This helps to simulate the thermal lag experienced by products stored in the monitored environment. Glycol buffer probes are available for use with all thermocouple and thermistor probe temperature sensors.

Setting up your WiFi-TP+ Vaccine Monitoring Kit 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, $^{\circ}\text{C}/^{\circ}\text{F}$, Sample Rate, and High/Low alarm levels. Our software and firmware updates are available for free from www.filesthrutheair.com/support.

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 the Cloud (max 30 days at 10 second sample interval). Although the WiFi sensors have an impressive range this can be increased by using WiFi extenders available from our store.

The sensor is a battery powered device with an internal rechargeable lithium polymer battery, but can be permanently powered using a USB power supply (available separately).

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*.

The WiFi-TP+ sensor has a protection rating of IP43 and the glycol buffer probe, IP67. The WiFi-TP+ is freestanding, but can be attached to a wall or surface using the bracket provided. The glycol buffer probe is supplied with a detachable magnetic base for easy installation.

A range of recommended accessories, including ADSL routers, USB mains chargers and spare probes 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	-40 (-40)		+100 (+212)	°C (°F)
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		°C
Temperature accuracy		±0.2 °C (-15 to +80°C)	±0.6°C (-40 to +125°C)	°C
Glycol buffer probe response time (t90)		40		minutes

Warning - do not exceed operating temperatures.

The t90 response is the time taken for the temperature probe to achieve 90% of the ambient temperature, after being subjected to an instant change. This response time is designed to reproduce the thermal characteristics of a vaccine vial, accurately tracking the temperature of the vaccine.

WiFi-TP+ Vaccine XL

This product is available with a large capacity battery. The WiFi-TP+ Vaccine XL has double the battery life of the standard WiFi-TP+ Vaccine. 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