

EL-WiFi-21CFR-T

21CFR Remote WiFi Temperature Sensor



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -20 to +60°C temperature measurement range
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WiFi-21CFR-T measures the temperature of the environment in which it is situated. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-T has a protection rating of IP55. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-20		+60	°C
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Temperature accuracy		±0.3 (+5 to +60°C)	±0.8 (-20 to +60°C)	°C
IP Rating	IP55 (Bung fully inserted, not permanently powered, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	



ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-T+

High Accuracy 21CFR Remote WiFi Temperature Sensor



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- High Accuracy temperature measurement from -20 to +60°C
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WiFi-21CFR-T+ measures the temperature of the environment in which it is situated. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-T+ has a protection rating of IP55. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-20		+60	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		
Temperature accuracy		±0.1 (-10 to +50°C)	±0.15 (-20 to +60°C)	°C
IP Rating	IP55 (Bung fully inserted, not permanently powered, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
CABLE USB A-MICRO B	USB Type A to Micro B



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EL-WiFi-21CFR-TP

21CFR Remote WiFi Temperature Sensor External Thermistor



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Thermistor probe temperature measurement range -40 to +125°C
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WiFi-21CFR-TP measures the temperature of the environment in which the probe is situated. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-TP has a protection rating of IP42 and the probe IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-40		+125	°C
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Temperature accuracy		±0.5 (-10 to +60°C)	±1.5 (-40 to +125°C)	°C
IP Rating	Logger IP42, Probe Tip IP67 (Bung fully inserted, not permanently powered, probe connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

EL-P-TP	Replacement thermistor probe
PSU-5VDC-USB-USA	USB mains power adapter for USA
PSU USB-UK	USB mains power adapter for UK
PSU USB-EU	USB mains power adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-TP	1m Thermistor Probe
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

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EL-WiFi-21CFR-TP+



High Accuracy 21CFR Remote WiFi Temperature Sensor External Thermistor

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Thermistor probe temperature measurement range -40 to +125°C
- Easy sensor set-up using free PC software application
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator

The EL-WiFi-21CFR-TP+ measures the temperature of the environment in which the probe is situated. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-TP+ has a protection rating of IP42 and the probe IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-40		+125	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		
Temperature accuracy		±0.2 (-15 to +80°C)	±0.6 (-40 to +125°C)	°C
IP Rating	Logger IP42, Probe Tip IP67 (Bung fully inserted, not permanently powered, probe connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm **			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

EL-P-TP+	Replacement high accuracy thermistor probe
PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-TP+	3m Thermistor Probe
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

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EL-WiFi-21CFR-DTP+

High Accuracy 21CFR Remote WiFi Temperature Sensor Dual Channel External Thermistor

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -40°C to +125°C temperature measurement range
- Dual channel recording through two high accuracy thermistor probes
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WiFi-21CFR-DTP+ measures the temperature of the environment in which the two probes are situated. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-DTP+ has a protection rating of IP40 and the probes IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required. The probes are connected to the sensor via a 160mm Y splitter cable (included).



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range (probe)	-40		+125	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		
Temperature accuracy		±0.2 (-15 to +80°C)	±0.6 (-40 to +125°C)	°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, probe connectors (including Y Splitter) fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 36mm**			

* MAC Address starting 98:8B:AD:2:..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB mains power adapter for USA
PSU USB-UK	USB mains power adapter for UK
PSU USB-EU	USB mains power adapter for EU
EL-P-TP+	Replacement high accuracy thermistor probe

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2x EL-P-TP+	3m thermistor probes
CABLE USB A-MICRO B	USB type A to micro B
CABLE SPLITTER	Dual probe Y splitter cable



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EL-WiFi-21CFR-TC



21CFR Remote WiFi Temperature Sensor External Thermocouple

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Supplied with external K-Type Thermocouple Probe 0 to +200°C, see TC probes datasheet for details
- Thermocouple probe temperature measurement range -270 to +1372°C (allows interchangeable probes)
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Wirelessly stream and view data on the EasyLog 21CFR Cloud
- Configurable high and low alarms with indicator



The EL-WiFi-21CFR-TC measures the temperature of the environment in which the probe is situated. Featuring an industry standard miniature thermocouple connector, the device is compatible with K, N, J and T-type probes.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-TC has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Probe measurement range	K-type (supplied) 0 K-type -270 J-type -210 T-type -270		+200 +1372 +1200 +400	°C
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement Resolution		0.1		°C
Temperature display resolution		0.1		
Temperature accuracy (display)		±1.5		°C
Temperature accuracy (K-type probe supplied)		±2.5		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

* MAC Address starting 98:8B:AD:2:..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-K	Replacement 1.5m K-type thermocouple with stainless steel probe (Class 2)

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-TC-K	1.5m K-type thermocouple with stainless steel probe (Class 2)
CABLE USB A-MICRO B	USB Type A to Micro B

CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-DTC

21CFR Remote WiFi Temperature Sensor Dual Channel External Thermocouple



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Dual channel recording through two external K-Type Thermocouple Probes (supplied) 0 to +200°C, for details see TC probes datasheet
- Thermocouple probe temperature measurement range -270 to +1372°C (allows interchangeable probes)
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator



The EL-WiFi-21CFR-DTC measures the temperature of the environment in which the probes are situated. Featuring industry standard miniature thermocouple connectors, the device is compatible with K, N, J and T-type probes.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-DTC has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Probe measurement range	K-type (supplied) 0 K-type -270 J-type -210 T-type -270		+200 +1372 +1200 +400	°C)
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Temperature accuracy (display)		±1.5		°C
Temperature accuracy (K-type probe supplied)		±2.5		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
Dimensions (Display)	82 x 70 x 36mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-K	Replacement 1.5 K-type thermocouple with stainless steel probe (Class 2)

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2x EL-P-TC-K	1.5m K-type thermocouple with stainless steel probes (Class 2)
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-TH

21CFR Remote WiFi Temperature & Humidity Sensor

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -20 to +60°C temperature and 0 to 100% humidity measurement range
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WIFI-21CFR-TH measures the temperature and humidity of the environment in which it is situated.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10 second sample interval). The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

EL-WiFi-21CFR-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. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-20		+60	°C
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Temperature accuracy		±0.3 (+5 to +60°C)		°C
Humidity measurement range	0		100	%RH
Humidity measurement resolution		1		%RH
Humidity display resolution		1		
Humidity accuracy (@ 25°C)		±2** (20 to 80)		%RH
IP Rating	IP55 (Bung fully inserted, not permanently powered, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

21CFR COMPLIANCE

* MAC Address starting 98:8B:AD:2..... only.
** Excluding mounting bracket.

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

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EL-WiFi-21CFR-TH+

High Accuracy 21CFR Remote WiFi Temperature and Humidity Sensor

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -20 to +60°C temperature and 0 to 100% humidity measurement range
- Wirelessly stream and view data on the 21CFR Cloud
- Easy sensor set-up using free 21CFR WiFi Sensor Software
- Configurable high and low alarms with indicator

The EL-WIFI-21CFR-TH+ measures the temperature and humidity of the environment in which it is situated.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10 second sample interval). The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

EL-WiFi-21CFR-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. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-20		+60	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		
Temperature accuracy		±0.2** (+5 to +60°C)		°C
Humidity measurement range	0		100	%RH
Humidity measurement resolution		0.1		%RH
Humidity display resolution		0.1		
Humidity accuracy (@ 25°C)		±1.8** (10 to 90)		%RH
IP Rating	IP55 (Bung fully inserted, not permanently powered, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

* MAC Address starting 98:8B:AD:2..... only
 ** Excluding mounting bracket

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
CABLE USB A-MICRO B	USB Type A to Micro B



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EL-WiFi-21CFR-VAC

High Accuracy 21CFR Remote WiFi Temperature Sensor External Thermistor with Glycol Bottle

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -40°C to +60°C temperature measurement range
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free PC software application
- Calibration certificate supplied at 2 and 8°C

The EL-WiFi-VAC measures the temperature of a probe sunk into a glycol bottle, designed to mimic a vaccine sample. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR Cloud.

During configuration, the sensor will search for an existing wireless network whilst physically connected to the PC. The sensor can then be placed anywhere within range of the network. In a typical usage scenario, the probe is placed next to the vaccines within a fridge, and the ribbon cable fed out to the logger attached to the outside of the fridge using its magnetised wall bracket; the cable is deliberately thin so as not to interfere with the fridge seal. 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 21CFR Cloud (max 30 days at 10 second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The logger unit has a protection rating of IP42 and the probe IP67. The unit is freestanding, but can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range (Probe)	-40		+60	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		°C
Temperature accuracy		±0.1 (-10 to +60°C)	±0.6 (-40 to +60°C)	°C
IP Rating	Logger IP42, Probe Tip IP67 (Bung fully inserted, not permanently powered, probe connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

EL-P-VAC	Replacement thermistor glycol probe
PSU-5VDC-USB-USA	USB mains power adapter for USA
PSU USB-UK	USB mains power adapter for UK
PSU USB-EU	USB mains power adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-VAC	External Thermistor Glycol Probe
CABLE USB A-MICRO B	USB Type A to Micro B
CAL-TEMP-UK	Temperature Calibration Certificate



CALIBRATION CERTIFICATES INCLUDED

The EL-WiFi-21CFR-VAC comes with a calibration certificate issued at 2 and 8°C, using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-VAC2

High Accuracy 21CFR Remote WiFi Temperature Sensor Dual Channel External Thermistor with Glycol Bottle

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- -40°C to +60°C temperature measurement range
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free PC software application
- Calibration certificate supplied at 2 and 8°C

The EL-WiFi-VAC2 measures the temperatures of two probes sunk into glycol bottles, designed to mimic vaccine samples. The probes are connected to the logger via a 160mm Y splitter cable which is provided. Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR Cloud.

During configuration, the sensor will search for an existing wireless network whilst physically connected to the PC. The sensor can then be placed anywhere within range of the network. In a typical usage scenario, the probe is placed next to the vaccines within a fridge, and the ribbon cable fed out to the logger attached to the outside of the fridge using its magnetised wall bracket; the cable is deliberately thin so as not to interfere with the fridge seal. 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 21CFR Cloud (max 30 days at 10 second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The logger unit has a protection rating of IP42 and the probe IP67. The unit is freestanding, but can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range (probe)	-40		+60	°C
Temperature measurement resolution		0.01		°C
Temperature display resolution		0.01		
Temperature accuracy		±0.1 (-10 to +60°C)	±0.6 (-40 to +60°C)	°C
IP Rating	Logger IP42, Probe Tip IP67 (Bung fully inserted, not permanently powered, probe connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 36mm**			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

EL-P-VAC	Replacement thermistor glycol probe
PSU-5VDC-USB-USA	USB mains power adapter for USA
PSU USB-UK	USB mains power adapter for UK
PSU USB-EU	USB mains power adapter for EU

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2x EL-P-VAC	External Thermistor Glycol Probes
CABLE USB A-MICRO B	USB Type A to Micro B
CABLE SPLITTER	Dual Probe Y Splitter Cable
CAL-TEMP-UK	Temperature Calibration Certificate



CALIBRATION CERTIFICATES INCLUDED

The EL-WiFi-21CFR-VAC2 comes with a calibration certificate issued at 2 and 8°C, using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-ULT

21CFR Ultra Low Temperature Cryogenic Vaccine WiFi Data Logger



Your data, anytime, anywhere



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Measurement range -100 to +100°C
- T-type probe on 1m cable
- Wirelessly stream and view data on the EasyLog 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free 21CFR WiFi Sensor Software

The EL-WiFi-21CFR-ULT is designed to monitor vaccines in cryogenic dry ice storage, in accordance with 21CFR part 11 data security standards.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-ULT has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Temperature measurement range	-100		+100	°C
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement Resolution		0.1		°C
Temperature display resolution		0.1		
Accuracy		±2.5		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			
Probe dimensions	300 x Ø 1.5mm, 1m cable (11.8 x Ø 0.05, 39.3" cable)			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-T-ULT	Replacement T-type Thermocouple probe

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-TC-T-ULT	Thermocouple probe
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



EL-WiFi-21CFR-ULT+



Your data, anytime, anywhere



High Accuracy, 21CFR Ultra Low Temperature Cryogenic Vaccine WiFi Data Logger

- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Measurement range -100 to +100°C
- High accuracy T-type probe on 2m cable
- Wirelessly stream and view data on the EasyLog 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free 21CFR WiFi Sensor Software



The EL-WiFi-21CFR-ULT+ is designed to monitor vaccines in cryogenic dry ice storage, in accordance with 21CFR part 11 data security standards.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-ULT+ has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Temperature measurement range	-100		+100	°C
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement Resolution		0.1		°C
Temperature display resolution		0.1		
Accuracy		±1.8		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm**			
Probe dimensions	300 x Ø 1.5mm, 2m cable (11.8 x Ø 0.05, 39.3" cable)			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-T-ULT+	Replacement T-type Thermocouple probe

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
EL-P-TC-T-ULT+	Thermocouple probe
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

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EL-WiFi-21CFR-DULT

21CFR Dual Channel Ultra Low Temperature Cryogenic Vaccine WiFi Data Logger



Your data, anytime, anywhere



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Measurement range -100 to +100°C
- T-type probe on 1m cable
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free 21CFR WiFi Sensor Software



The EL-WiFi-21CFR-DULT is designed to monitor vaccines in cryogenic dry ice storage, in accordance with 21CFR part 11 data security standards.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-DULT has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Temperature measurement range	-100		+100	°C
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Accuracy		±2.5		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
Dimensions (Display)	82 x 70 x 36mm**			
Probe dimensions	300 x Ø 1.5mm, 1m cable (11.8 x Ø 0.05, 39.3" cable)			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-T-ULT	Replacement T-type Thermocouple probe

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2 x EL-P-TC-T-ULT	Thermocouple probe
CABLE USB A-MICRO B	USB Type A to Micro B



CALIBRATION CERTIFICATES NOW AVAILABLE

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EL-WiFi-21CFR-DULT+

High Accuracy, 21CFR Dual Channel
Ultra Low Temperature Cryogenic
Vaccine WiFi Data Logger



Your data, anytime, anywhere



- Can be installed as part of a 21CFR compliant system with additional controls including permission-based use, authority level sign-off and full system audit
- Measurement range -100 to +100°C
- High accuracy T-type probe on 2m cable
- Wirelessly stream and view data on the 21CFR Cloud
- Configurable high and low alarms with indicator
- Easy sensor set-up using free 21CFR WiFi Sensor Software

The EL-WiFi-21CFR-DULT+ is designed to monitor vaccines in cryogenic dry ice storage, in accordance with 21CFR part 11 data security standards.

Data is streamed wirelessly over any compatible WiFi network to be viewed on the 21CFR 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 21CFR Cloud (max 30 days at 10-second sample interval).

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

The EL-WiFi-21CFR-DULT+ has a protection rating of IP40 and the probe tip IP67. The unit is freestanding, but it can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.



SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Temperature measurement range	-100		+100	°C
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range (logger)	-20		+60	°C
Logging period (user configurable)	10 sec	10 min	12 hrs	
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Temperature measurement resolution		0.1		°C
Temperature display resolution		0.1		
Accuracy		±1.8		°C
IP Rating	Logger IP40, Probe Tip IP67 (Bung fully inserted, not permanently powered, thermocouple connector fitted and fully inserted, device mounted vertically.)			
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Probe dimensions	300 x Ø 1.5mm, 2m cable (11.8 x Ø 0.05, 39.3" cable)			

* MAC Address starting 98:8B:AD:2..... only. **Excluding mounting bracket.

21CFR COMPLIANCE

Permission based use and access	✓
Authority based action sign-off	✓
Data records cannot be edited or deleted	✓
Complete system audit trail	✓
For a detailed compliance checklist, please ask us	

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-P-TC-T-ULT+	Replacement T-type Thermocouple probe

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2 x EL-P-TC-T-ULT+	Thermocouple probe
CABLE USB A-MICRO B	USB Type A to Micro B



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EL-WiFi-21CFR

21CFR Remote WiFi Sensor



21CFR WIFI SENSOR SOFTWARE

EasyLog 21CFR WiFi software* is available as a free download from download.filesthrutheair.com. Easy to install and use, EasyLog 21CFR WiFi Sensor Software allows easy sensor set-up and connection of sensors to a WiFi network and the 21CFR Cloud.

21CFR CLOUD

21CFR Cloud subscription delivers all of the flexibility of a remote monitoring system: Interact with sensors via any internet-enabled device; manage and monitor sensors; access event logs and set up email alerts; assign authorisation levels to user accounts and view comprehensive audit trail records. Unlike the standard EasyLog Cloud service, 21CFR Cloud includes other controls such as permission-based use, authority sign-off and full system audit to ensure data monitored and collected is regulated to 21CFR Part 11 standard.



For full pricing information and to create an account, please visit <https://21cfr.wifisensorcloud.com/>. Any queries or questions, please do not hesitate to contact our team.

Detailed data reporting

Authority sign-off on actions

Detailed system audit reporting

A Cloud account subscription is created during the WiFi sensor set-up process using EasyLog 21CFR WiFi Sensor Software. 21CFR WiFi Sensors are only compatible with the 21CFR Cloud 21cfr.wifisensorcloud.com.

Download the latest version of the software free of charge from download.filesthrutheair.com

BATTERY LIFE AND POWER SUPPLY

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

*Requires Windows 7, 8.1, 10

