



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# WLAN-TC

## TEMPERATURE DATA LOGGING WITH K TYPE THERMOCOUPLE PROBE



### FEATURES

- \* TEMPERATURE DATA LOGGING SENSOR WITH K TYPE THERMOCOUPLE PROBE AND INTEGRATED DISPLAY
- \* EASY SENSOR SET-UP USING THE FREE PC SOFTWARE APPLICATION
- \* WIRELESSLY STREAM DATA TO PC VIA WIFI
- \* VIEW AND ANALYSE MULTIPLE SENSORS, INCLUDING IMMEDIATE GRAPHING OF HISTORIC DATA
- \* SELECTABLE MEASUREMENT SCALE °C / °F
- \* TEMPERATURE ACCURACY  $\pm 1.5^{\circ}\text{C}$  (PROBE DEPENDENT)
- \* TEMPERATURE MEASUREMENT RESOLUTION TO  $0.1^{\circ}\text{C}$
- \* TEMPERATURE DISPLAY RESOLUTION TO  $0.1^{\circ}\text{C}$  ( $-99.9$  TO  $999.9^{\circ}\text{C}$ )
- \* TEMPERATURE MEASUREMENT RANGE  $-270$  TO  $+1300^{\circ}\text{C}$  ( $-454$  TO  $+2372^{\circ}\text{F}$ )
- \* OPERATING TEMPERATURE RANGE  $-20$  TO  $+60^{\circ}\text{C}$  ( $-4$  TO  $+140^{\circ}\text{F}$ )
- \* CONFIGURABLE HIGH AND LOW ALARMS WITH INDICATOR
- \* AUDIT FUNCTION
- \* MAXIMUM AND MINIMUM READINGS
- \* LOW BATTERY INDICATOR
- \* WIFI CONNECTION INDICATOR / SIGNAL STRENGTH INDICATOR
- \* 802.11B COMPLIANT
- \* PROTECTION RATING IP55
- \* RECHARGEABLE INTERNAL LITHIUM POLYMER BATTERY
- \* SENSOR MEMORY STORES ALL DATA EVEN IF WIFI IS TEMPORARILY DISCONNECTED
- \* USB PORT USED FOR RECHARGING (CAN ONLY BE RECHARGED WITHIN  $0 - 40^{\circ}\text{C}$ )
- \* FIRMWARE UPGRADABLE VIA USB (DOWNLOADABLE FROM THE WEBSITE)
- \* PC CAN BE SWITCHED OFF WITHOUT LOSS OF DATA
- \* SUPPLIED WITH WALL BRACKET AND MICRO USB LEAD
- \* SUPPORTED SECURITY PROTOCOLS WEP, WPA/WPA2 - PSK

### ORDERING CODE

WIFI THERMOCOUPLE TEMPERATURE DATA LOGGING

**EA WLAN-TC**

## GENERAL

The EA WLAN-TC measures the temperature of the environment in which the probe is situated. This sensor is typically accurate to  $\pm 1.5^{\circ}\text{C}$ . Data is streamed wirelessly over any WiFi network and can be viewed on a PC using our free software package. 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 (max 30 days at 10 second sample interval).

The EA WLAN-TC 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 (MS-CHAPv2, PEAP, EAP-FAST, EAP-TTLS).

Setting up your EA WLAN-TC is easy, using our free PC software. Choose to store your data locally on the PC. 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. EA WLAN-TC has a protection rating of IP44. The unit is freestanding, but can be attached to a wall or surface using the bracket provided.

This sensor is supplied with a removable K type thermocouple probe but supports types J, K, N & T.

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)	$^{\circ}\text{C}$ ( $^{\circ}\text{F}$ )
Logging Period (user configurable)	10 sec	10 min	12 hrs	
Transmission Period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-270 (-454)		+1300 (+2372)	$^{\circ}\text{C}$ ( $^{\circ}\text{F}$ )
Temperature measurement resolution		0.1		$^{\circ}\text{C}$
Temperature display resolution		0.1		$^{\circ}\text{C}$
Temperature accuracy (probe dependent)		$\pm 1.5^{\circ}\text{C}$		$^{\circ}\text{C}$

*Warning - do not exceed operating temperatures*

## DIMENSION



*all dimensions are in mm*