



sensorProbe - Wireless Tunnel™ (SP-WT)

Connect up to 4 AKCP Intelligent Sensors

sensorProbe Wireless Tunnel™ allows you to connect up to 4 AKCP Intelligent sensors to a single radio. Communicate sensors over long distance with LoRa™ based wireless communications. AKCP's proprietary Wireless Tunnel™ protocol provides guaranteed message delivery without loss of data and low power utilization for superior battery life.

Build your own private LoRa based network without the need for any cloud services. Data is transmitted to the sensorProbe Wireless Tunnel Server (SP-WTS). Multiple SP-WTS can be monitored centrally with AKCPro Server, which can run locally or on a cloud service.





PRODUCT CATALOG sensorProbe Wireless Tunnel™

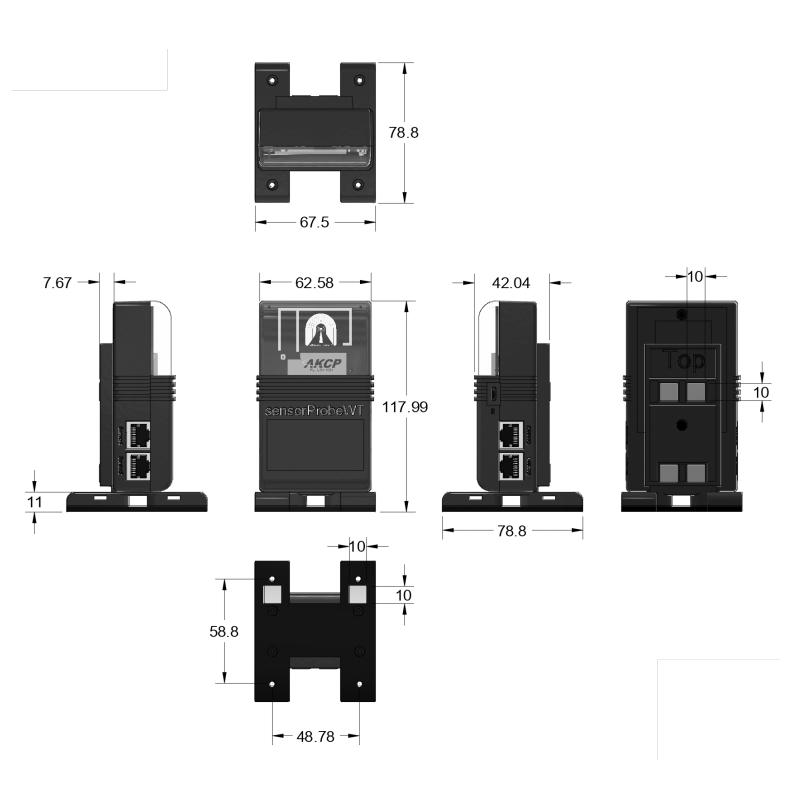
SP-WT - Technical Specification

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Status Indication	LED indication for power
	LED for Radio connectivity
	LED for Status
Components	Manufactured using highly integrated, low power surface mount technology to
	ensure long term reliability.
Operating Environment	Temperature : Min15° C – Max.50° C
	Humidity: Min. 20% – Max. 80% (Non-Condensing)
MTBF	1,400,000 Hours based on field experience with sensorProbe units.
Connectivity	Wireless Tunnnel™ connection to sensorProbe-Wireless Tunnel Server (SP-WTS)
Inputs	1x USB for external 5VDC power
	1x 5VDC Terminal for external power or external battery pack
	4x intelligent sensor ports for connecting AKCP wired sensors
	3x intelligent sensor ports and 1x 4-20mAmp input*
	3x intelligent sensor ports and 1x Modbus input*
LoRa (R) Radio	- EU868 : 863~868Mhz
Regional plans	Max TX Power +14dBm
	Duty Cycle 1%
	- US915: 903~915Mhz
	Max TX Power +20dBm
	- AS923 : 920~925Mhz
	Max TX Power +14dBm
	Duty Cycle 1%
	- KR920 (Korea) : 922~923Mhz
	Max TX Power +14dBm
	Duty Cycle 1%
	Buty Syste 170
	- IL917 (Israel): 915~917Mhz
	Max TX Power +14dBm
	Duty Cycle 1%
Certification	FCC Part 15C, CE EN300220-2
Power	External 5.5V 3A Power Adapter
	AKCP External Battery Pack with 6x AAA batteries (non rechargeable)*
	3x AAA Batteries (non-rechargeable)
Dimension	111 (W) x 62 (H) x 87 (D)
Mounting	Desktop, wall mount, DIN rail, Magnetic
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* Optional feature on custom units	



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SP-WT - Technical Drawing





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SP-WT-EXTBAT - Technical Drawing

