

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.



SP-WT - Technical Specification

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 : Min. -15° 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 Tunnel™ connection to sensorProbe-Wireless Tunnel Server (SP-WTS)
Inputs	1x USB for external 5VDC power and firmware updates. 4x intelligent sensor ports for connecting AKCP wired sensors
LoRa (R) Radio Regional plans	- EU868 : 863~868Mhz 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% - 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 3x AAA Batteries (non-rechargeable)
Dimension	111 (W) x 62 (H) x 87 (D)
Mounting	Desktop, wall mount, DIN rail, Magnetic

SP-WT - Technical Drawing

