

Wireless Tunnel™ Differential Air Pressure (WTS-DAP)

Wireless Differential Air Pressure Monitoring

This Wireless Tunnel™ sensor can be deployed in the data center, hospitals, clean rooms and containment rooms. Check that proper pressure differentials are maintained, and receive alerts when they are not.

Data Center

In hot/cold aisle containment, ensuring proper pressure differential is important to prevent air mixing from the cold aisle to hot and vice versa. Also to ensure that positive pressure differentials are maintained so air is flowing through the cabinet.

Clean Rooms

Maintain a positive pressure differential in clean rooms to eject particles and avoid sucking in outside air

Containment Rooms

When dealing with infectious material, a negative pressure differential should be maintained to prevent escape of air that can carry hazardous material.



WTS-DAP - Technical Specification

Measurement range	± 125 Pa (±0.5 inH2O / ±1.25 mbar)
Resolution	0.01 Pa increments
Accuracy at	25°C ±0.5%
Status Indication	LED indication for - Mode - Status - RSSI
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
Operating Environment	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
LoRa (R) Radio Regional plans	- EU868 : 863~868Mhz, Max TX Power +14dBm, Duty Cycle 1% - US915: 903~915Mhz, Max TX Power +17dBm - 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 Part15C, CE EN300220-2
Interface	Micro-USB port for powering, adding and upgrading to the Gateway base unit
Dimension	76x77x120mm
Mounting	Wall hanging, DIN rail, Pipe Clamp
Power source	4xAA batteries or via micro-USB port
Power Consumption	Average 12 mWatt, 10uA in Idle, up to 10 years battery life
Gateway sensor count	4 (3 + 1)

WTS-DAP - Technical Drawing

