Mini AI Thermopile People Counter

Featuring LoRaWAN®

VS351

Battery Version

Type-C Version

The VS351 is a compact AI thermopile people counter designed for indoor applications, it offers high accuracy in bi-directional people counting, enabling effective analysis of foot traffic and efficient space management. Combined with a PIR sensor for presence detection, it intelligently schedules the activation time of the thermopile to optimize power consumption. As a Milesight D2D controller, the VS351 seamlessly communicates with other Milesight D2D devices, establishing more possible connections and paving the way for smoother operations.

With easy configuration and wireless detection, the VS350 facilitates simple deployment and connectivity. Compliant with the Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can know the number of people in any indoor space and trigger other sensors or appliances easily via a webpage or mobile App remotely.

◆ Specifications

Measurement	
People Counting	
Technology	PIR & Thermopile
Installation Height	Ceiling Mount: ≤ 3.0m

Detection Range	Ceiling Mount: Passage Width = 4.9 m (At the height of 3m)
Detection Rate	Single Person[1]: Up to 99% Multiple People: Up to 95%
Best Operating Temperature[2]	15 °C~30 °C
Advanced Features	Filter U-turns, Bi-directional People Counting, Parallel Detection

Temperature

Range	-30°C ~ 70°C
Accuracy	± 0.5°C

Wireless Transmission

Protocol	LoRaWAN®, Milesight D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/19 dBm (470 MHz)/22 dBm (915 MHz)
Sensitivity	-137dBm
Mode	OTAA/ABP Class A

Others

LED	1 × LED Indicator (Internal)
Button	1 × Reset Button (Internal)
Configuration	NFC Configuration via Mobile App
Advanced Feature	Data Storage, Data Retransmission, Milesight D2D Controller

Physical Characteristics

Power Supply	1. 5V/1A by USB (Both Versions) 2. 4 x 9000 mAh ER26500 Li-SOCl$_2$ Replaceable Batteries (Battery Version)
Battery Life[3]	Around 1.5 Years (30-min Interval, 25°C, 1000 People per Day)
Operating Temperature	-20°C ~ 60°C
Relative Humidity	0% - 95% (Non-condensing)
Ingress Protection	IP30
Dimension	100 x 70 x 21 mm (3.94 x 2.76 x 0.83in)
Material & Color	PC (Flame Retardant), White
Installation	Ceiling Mounting, Lintel Mounting

[1] 40-50 cm should be kept between two people while passing the detection area.

[2] The sensitivity of PIRs is greatly influenced by ambient temperature. And the most effective working temperature range is +15 to +30 °C.

[3] Tested under laboratory conditions and for guideline purposes only.