Passage People Counter

Featuring LoRaWAN®

VS350



The VS350 is an exceptional indoor passage people counter that detects and analyzes the flow of people, allowing for optimum space management and usage. Equipped with dual PIR sensors, it offers a high accuracy rate for bi-directional people counting. When combined with the additional temperature sensor, the VS350 can achieve even more potential triggers, increasing its detection capabilities. As a Milesight D2D controller, the VS350 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 Development Platform solution, users can know the number of passage people and trigger other sensors or appliances easily via a webpage or mobile App remotely.

VS350 can be used in retails stores, offices, restrooms, etc.

◆ Features

- Provide good accuracy rate for bi-directional people counting with dual PIR sensors
- Ultra-low power consumption with up to 4-year battery life without replacement
- 100% anonymity and GDPR-compliant without image capturing, free from privacy concerns
- Equipped with a reliable and cost-effective sensor system for counting people through passages
- Function well with people counting with perfect-fit detecting ranges

- Wireless connectivity and convenient size improve the accessibility and simplicity of deployment
- Built-in temperature sensor, enabling environmental detection
- Store locally historical records and support retransmission to prevent data loss
- Support Milesight D2D protocol to enable ultra-low latency and directly control without gateways
- Equipped with NFC for one touch configuration and support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- Compatible with Milesight IoT Cloud and Milesight Development Platform

◆ Specifications

Measurement	
People Counting	
Technology	Dual PIR
Installation Height	Ceiling Mount: 2m - 3m Wall Mount: 1.2m - 1.3m
Detection Range[1]	Ceiling Mount: Passage Width = 3.1 m (At the height of 3m) Wall Mount: Passage Width < 2.3 m
Best Operating Temperature[2]	15 °C~30 °C
Bi-directional Counting	Support
Temperature	
Measuring Range	-30°C ~ 70°C
Accuracy	± 0.5°C
Wireless Transmission	
Protocol	LoRaWAN®, Milesight D2D
Antenna	Internal Antenna
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)
Software	
Configuration	NFC via Mobile App, Downlink
Advanced Feature	Data Storage (1,000 entries), Data Retransmission, Data Retrievability,

	Milesight D2D Controller, Detection Sensitivity Report, Multiple Threshold Trigger Report
Physical Characteristics	
Power Supply	2 x 2700 mAh ER14505 Li-SOCl$_2$ Replaceable Batteries
Battery Life[3] (10-min Interval, 25°C, 1000 People per Day)	Around 9.7 Years (SF7, EU868) Around 5.2 Years (SF10, EU868) Around 8.7 Years (SF7, US915) Around 4.6 Years (SF10, US915)
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)
Housing & Color	PC (Flame Retardant), White
Weight	99g (Batteries Included)
Installation	Ceiling Mount, Wall Mount
Approvals	
Regulatory	CE, FCC
Environmental	RoHS

[1] This detection range works at an environment temperature of 20°C.

[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.

◆ Detection Area

The reference detection range of Ceiling Mount:

Installation Height (m)	Passage Detection Width (m)
2.0	1.85
2.2	2.1
2.4	2.5
2.6	2.7
2.8	2.9
3.0	3.1

◆ Dimensions (mm)

