Manuals+ — User Manuals Simplified.

daviteq WS433-LPC Wireless Lidar People Counter Owner's Manual

Contents

daviteq WS433-LPC Wireless Lidar People Counter

Product Information

The WS433-LPC is a wireless Lidar people counter that accurately counts the number of people entering and leaving a designated area.

The built-in sensors and software differentiate between people entering and exiting, ensuring precise data. The device uses Sub-Ghz technology from Texas Instruments for a reliable and secure wireless connection, and its AES-128 security standard ensures data is securely transmitted. The device is ultra-low power and can last up to five years with AA batteries. The product is pre-installed, making it easy for customers to use without any additional setup.

Specifications

- **Sensor technology:** Lidar
- **Detection range:** max 4m
- **Detection cone:** 27 degrees
- **Working temperature:** -40 .. + 60 oC
- **Working humidity:** 0 .. 100% RH, non-condensing
- **Data speed:** Up to 50kbps
- **Transmission distance, LOS:** 1000m
- **Battery:** AA Type 1.5VDC and 7..48VDC (AC adapter not included)
- **Frequency Band:** ISM 433MHz, Sub-GHz technology from Texas Instrument, USA
- **International Compliance**: ETSI EN 300 220, EN 303 204 (Europe), FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
- **Vietnam Type Approval Certification:** QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
- **Security Standard:** AES-128
- **Operating temperature of PCB:** -40oC..+60oC (with Lithium Ultimate AA battery)
- **Housing/Protection:** Self-extinguisher ABS, Dust, and vapor protection
- **Mounting:** Ceiling mount

- **Dimension:** H120xW80xD45
- **Net weight:** 150 grams

Product Usage Instructions

The WS433-LPC is pre-installed, making it easy to use. Follow the below instructions for usage:

1. Install AA batteries or an AC adapter (not included) to power the device.
2. Install the device on the ceiling in the designated area where people will enter and exit.
3. The device will start counting people automatically when they enter and exit the area.
4. The data can be collected wirelessly and viewed through the software.
5. When necessary, the device can be reconfigured through the software.
6. To ensure accurate counting, make sure that people pass underneath the device's detection cone.

For any further assistance or questions, please refer to the user manual or contact Daviteq Technologies Inc.

INSTALLATION INSTRUCTION

HIGH ACCURACY & STABLE

- High accuracy counting by Lidar

DISTINGUISH PEOPLE IN AND OUT

- Smart software and built-in sensors can distinguish people from entering and leaving accurately

RELIABLE & SECURED WIRELESS CONNECTION

- Sub-Ghz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128

ULTRA-LOW POWER WITH 5 YEARS BATTERY

- Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology from Texas Instruments allow the sensor can last up to 5 years.

PLUG & PLAY

- Everything is pre-installed so customers don't have to do anything
- WS433-LPC is a sensor with built-in advanced Lidar sensor to detect and ranging people. It can count the people walk thru with accuracy higher than 95%. The sensor is not affected by temperature, humidity, RF noise and less affected by ambient light… The wireless portion is Sub-GHz technology from Texas Instruments allows long range transmission at ultra-low power consumption. It will connect 2-way wirelessly to the wireless co-ordinator WS433-CL to send data and receiving the configuration. It can be configured the operation parameters like data sending interval, health check cycle…remotely from Globiots platform or via ModbusRTU software (thru the WS433-CL).

- Its default data rate is 50 kbps, can be switched to 625 bps to increase the communication range. The sensor can last up to 5 years with type AA battery. Typical **Applications:** People counter for public toilet, People counter for Store, shop.
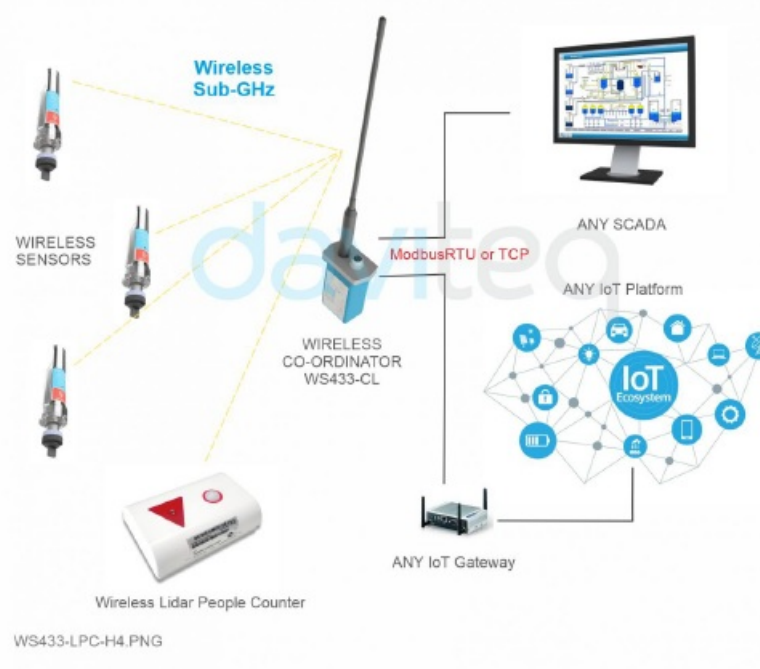
People Counter for Store, Shop...

WS433-LPC-H2.PNG

SPECIFICATION

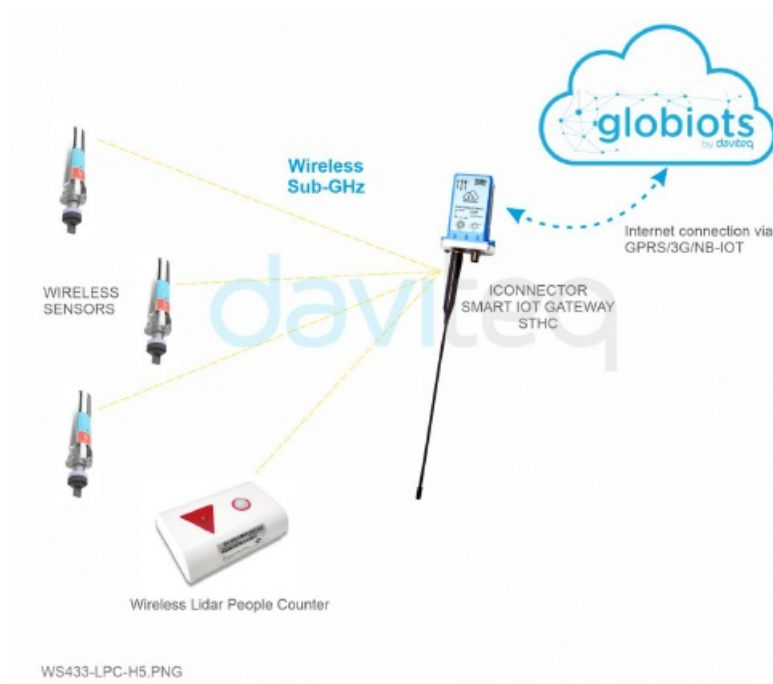| SENSOR SPECIFICATION	
Sensor technology	Lidar
Detection range	max 4m
Detection cone	27 degree
Working temperature	-40 .. + 60 oC
Working humidity	0 .. 100% RH, non-condensing
WIRELESS SPECIFICATION	
Data speed	Up to 50kbps
Transmission distance, LOS	1000m
Antenna	Internal Antenna
Functions	Sending data in interval or when alarms occur
Battery	Battery AA Type 1.5VDC and 7..48VDC (AC adapter not included
Frequency Band	ISM 433MHz, Sub-GHz technology from Texas Instrument, USA
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Security Standard	AES-128
Operating temperature of PCB	-40oC..+60oC (with Lithium Ultimate AA battery)
Housing/Protection	Self-extinguisher ABS, Dust and vapor protection
Mounting	Ceiling mount
Dimension	H120xW80xD45
Net weight	<150 grams

CONNECT WIRELESS SENSORS TO any PLC or HMI

Wireless Sub-GHz

WIRELESS SENSORS

WIRELESS CO-ORDINATOR WS433-CL

ModbusRTU or TCP

ANY PLC

ANY HMI

Wireless Lidar People Counter

WS433-LPC-H3.PNG

CONNECT WIRELESS SENSORS TO any SCADA or IoT Platform

Wireless Sub-GHz

WIRELESS SENSORS

WIRELESS CO-ORDINATOR WS433-CL

ModbusRTU or TCP

ANY SCADA

ANY IoT Platform

IoT Ecosystem

ANY IoT Gateway

Wireless Lidar People Counter

WS433-LPC-H4.PNG

CONNECT WIRELESS SENSORS To GLOBIOTS Platform

WS433-LPC-H5.PNG

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)
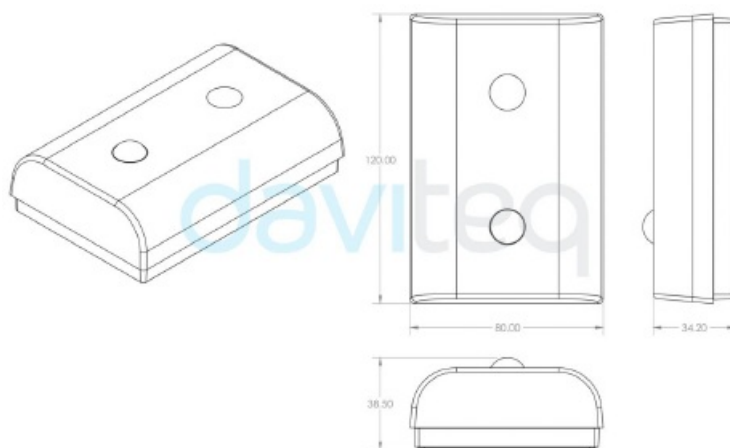
RECOMMENDED BATTERIES FOR WIRELESs SENSOR WS433

L91 AA Lithium battery

- 40.+60 OC working temperature 20-year shelf life 3500 mAH Capacity
- **Price:** 3.5Xx

ORDERING INFORMATION

WS433-LPC-01: WIRELESS LIDAR PEOPLE COUNTER, 433MHZ, TYPE AA BATTERY 1.5VDC, IP5X

DAVITEQ TECHNOLOGIES INC

- No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam
- **+84.28.6268.2523 / 6268.2524**
- **info@daviteq.com**
- **www.daviteq.com NOV-2021**
- **Doc No: WS433-LPC-DS-EN-10**

Documents / Resources

daviteq WS433-LPC Wireless Lidar People Counter [pdf] Owner's Manual
WS433-LPC Wireless Lidar People Counter, WS433-LPC, Wireless Lidar People Counter, Lidar People Counter, People Counter, Counter

References

- **Daviteq – Nhà sản xuất cảm biến đo lường và hệ thống IoT**
- **TCPDF**