

Get real-time people counting data for single doorways and narrow corridors

Terabee's People Flow Counting M 2.0 is an essential addition to modern building management systems. GDPR-compliant, compact in size, with a small footprint, it enables deployment of competitively-priced people counting solutions on a large scale.

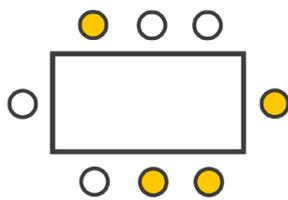
This product is designed to be installed over conventional doors and passageways. It uses 3D Time-of-Flight technology to detect and count people while ensuring their anonymity.

Easy to install, configure and highly accurate, People Flow Counting M 2.0 can be flexibly deployed via wired or wireless connectivity. Two product variations allow transmission of the data via Power over Ethernet, Wi-Fi or LoRa.

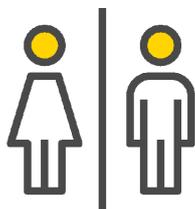
Key features

- GDPR compliant by design
- Uses 3D depth people counting sensor (non-camera technology)
- Easy to install and configure via Web GUI
- Effective in low light conditions
- Remote device configuration is via MQTT commands, via LoRa downlink commands or via Terabee Device management services (PoE model only)
- Adaptable power supply (10-30 V)
- Direct analog output signal (0-10 V) proportional to room occupancy
- Data transmission via LoRaWAN or MQTT/HTTPS
- Powerful people counting algorithm with 95% accuracy

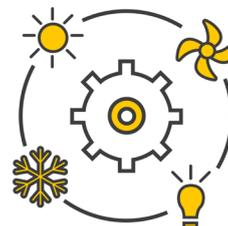
Applications



Meeting room occupancy

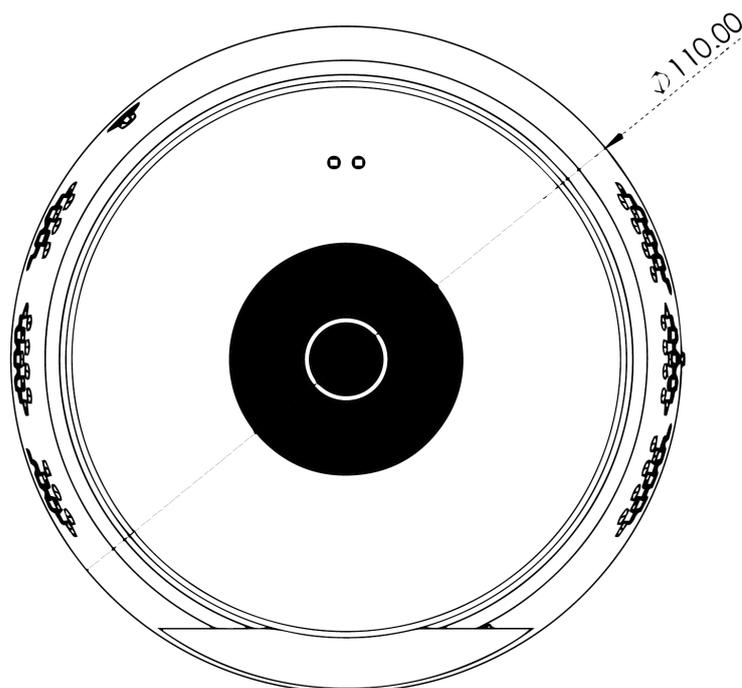
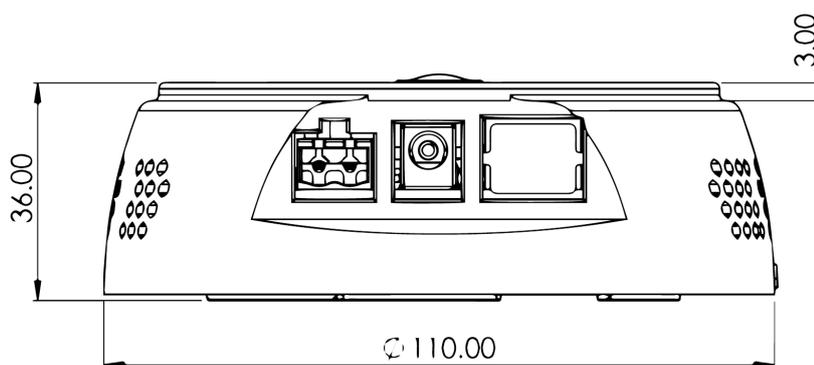


Washroom footfall measurement



HVAC systems integration

Dimensions



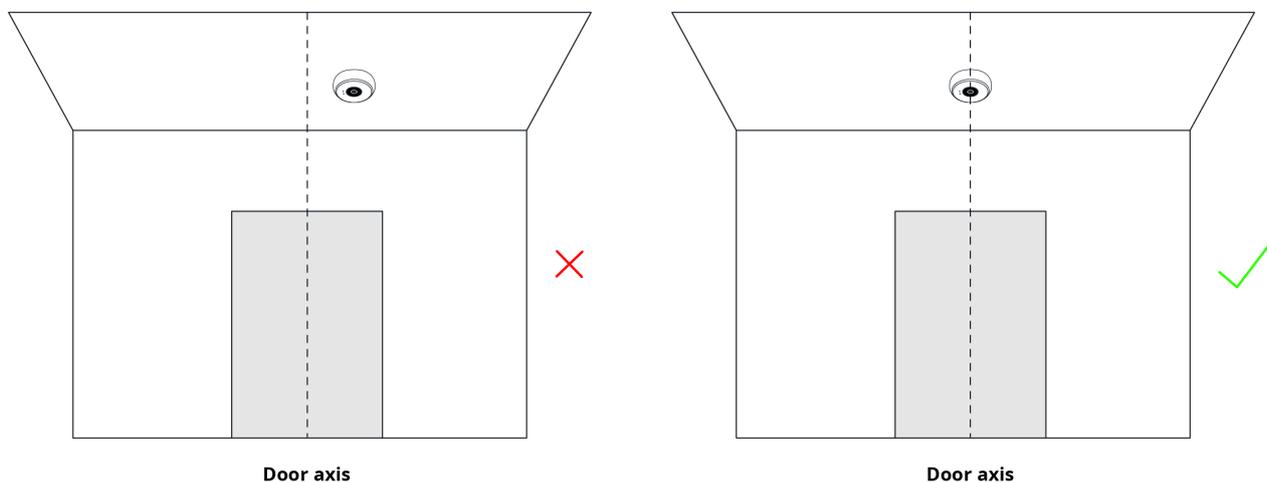
Technical specifications

Product code	TB-PCM	
Performances	PoE model	LoRa model
Technology	Infrared Time-of-Flight depth sensor	
Field of View	15°	
Coverage area dimensions	80 × 80 cm at 3.0 m high	
Installation height range	From 2.3 m up to 3.0 m	
Use environment	Indoor	
Counting accuracy	95% ¹	
People counting data communication	Real-time or at predefined time intervals	Predefined time intervals (min. of 1 minute)
Electronics	PoE model	LoRa model
Power source	5.5 × 2.1 mm jack (10-30 V DC ± 5% - 1 A) or PoE IEEE 802.3af/at/b	5.5 × 2.1 mm jack (10-30 V DC ± 5% - 1 A)
Power consumption	3 W average	
Analog output	N/A	0-10 V (signal proportional to room occupancy)
LED indicators	Two LEDs	
Initialization time	Approx. 15 Sec	
Mechanics	PoE model	LoRa model
Dimensions	Ø 110 mm × 36 mm	
Weight	141 g	129 g
Housing material	ABS PA-757	
Color	White (extra colors on demand)	
Operating temperature	0° to 35°C	
Storage temperature	-20° to 60°C	
Installation	On-ceiling mounting with provided mounting plate. Optional: Terabee Recess Mounting Kit M	
Wi-Fi or Ethernet communication	PoE model	LoRa model
Connectivity	Wi-Fi 802.11b/g/n or Gigabit Ethernet	Wi-Fi 802.11b/g/n
Recommended cabling	Category 6 or later	N/A
Addressing	DHCP Static IP	
Local Wi-Fi access point	192.168.4.1	
Protocols	HTTP/HTTPS, MQTT/MQTTs	
Remote device configuration	MQTT commands	
Outbound traffic required on port	53, 80/443, 1883/8883	
Domain whitelisting	*.terabee.com	
Data hosting (when using Terabee IoT platform)	Cloud hosting (Datacenter in Amsterdam, Europe). Data storage for up to 2 years	
Setup	Web GUI embedded on the device	
LoRa communication	PoE model	LoRa model
Communication interface	N/A	Wi-Fi Access Point for configuration LoRaWAN (1.0.3, Classe A)
Supported LoRaWAN frequencies	N/A	EU 863-870 MHz
LoRaWAN activation methods	N/A	OTAA, ABP
Antenna specification	N/A	+0.8 dBi, VSWR ≤ 2
Remote device configuration	N/A	LoRa downlink commands
Setup	N/A	Web GUI embedded on the device
Conformity	PoE model	LoRa model
Reference standard	CE (pending), FCC (pending), RoHS	

¹ Counting accuracy is assessed on the total number of entry and exit counts in representative conditions. In very diverse environments, this value may change.

Installation

Terabee People Flow Counting M 2.0 installs like a household smoke alarm, which needs to be placed centrally above doors and corridors and 10 cm minimum from the nearest vertical wall.



Maximum door width of 90 cm can be monitored with the following installation heights:

Installation height (m)
2.30 (min.)
2.70 (avg.)
3.00 (max.)

Have any questions? Contact us today!

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