TERABEE

SPECIFICATION SHEET

OCCUPANCY

"People Occupancy Counting"

HOW MANY PEOPLE ARE IN THE ROOM?

The most performant People OCCUPANCY Counter on the market **(>98% accurate)**, it covers the largest footprint **(8x8m area)** divisible into **8 independent zones** (drawable areas for counting or exclusions). A single Terabee OCCUPANCY counter is equivalent to installing multiple competing products.

Powered by an ultra-wide thermal imager, it ensures **full privacy and GDPR** protection in any situation, while distinguishing between human and other heat sources, counting only people, not laptops or other devices.

Designed for resource efficiency, it can detect room occupancy levels and proportionally **drive local equipment** like lighting and ventilation systems via an analog signal. Without forced subscriptions or data lock-ins, it can seamlessly send **data directly to your server** of choice.

KEY PRODUCT FEATURES:

1. **No camera = privacy**
2. **Best accuracy and footprint cover**
3. **No subscription fees**

Terabee, 55 Rue Auguste Piccard, Bât. C
01630 St. Genis-Pouilly, France
(5 km from Geneva Airport GVA)

terabee-sales@terabee.com
www.terabee.com

TERABEE

OCCUPANCY

PEOPLE OCCUPANCY COUNTING

Technical Specifications

Product Code: TB-POC

Performance	
Technology	Thermal Imaging
Field of View	160°
Footprint (Coverage Area Dimensions)	64 m^2 (8 m × 8 m)
Installation Height	From 2.4 m up to 4.0 m
Place of Use	Indoor
Counting Accuracy	98% (1)
Electronics	
Power Source	Jack 5.5 × 2.1 mm (10-30 V DC ± 5% - 1 A) RJ45 (PoE IEEE 802.3af) only PoE model
Power Consumption	2 W average
Analog Output	0-10 V proportional to room occupancy
Initialization Time	Approx. 3 min
Mechanics	
Dimensions and Weight	Ø 110 mm × h 36 mm, 128 g (+12 g for PoE model)
Housing Material	ABS PU 8158
Standard off-the-shelf Colors	White, Black (additional colors on demand)
Operating Temperature	-10° to 35°C
Storage Temperature	-20° to 60°C
Installation	Included: On-ceiling mounting plate. Optional: Terabee Recess Mounting Kit M
Certifications	CE, FCC, RoHS

Communication: PoE Model	
Frequency of Data Communication	Real-time or at predefined time intervals, on-event
Recommended Cabling	Cat 6 or later
Addressing	DHCP, Static IP
Device Hostname	poc-<serial_number>
Data Protocols	HTTP/HTTPS, MQTT/MQTTS
Outbound Traffic Required On Port	53, 123, 80/443, 1883/8883
Set Up Interface	Gigabit Ethernet, Wi-Fi 2.4 GHz

Communication: LoRa Model	
Frequency of Data Communication	At predefined time intervals (minimum of 2 minutes)
Supported LoRaWan Frequencies	EU 863-870 MHz, US 902-928 MHz (coming soon)
LoRaWAN Activation Methods	OTAA, ABP
Antenna Specification	‘+0.8 dBi, VSWR ≤ 2
Remote Device Configuration	LoRa downlink commands
Set Up Interface for Configuration	Local Wi-Fi Access Point
Set Up Interface for Data Transmission	Wi-Fi 2.4 GHz, LoRaWAN (1.0.3, Classe A)

(1) Counting accuracy is assessed on the total number of people present under the sensor Field-of-View, in a standard office working environment. Accuracy might be slightly affected by extreme environmental conditions, for example: in presence of fog or smoke, glass obstructions, strongly reflective metal surfaces, very high humidity, etc...

Terabee, 55 Rue Auguste Piccard, Bât. C
01630 St. Genis-Pouilly, France
(5 km from Geneva Airport GVA)

terabee-sales@terabee.com
www.terabee.com