



Remote level data directly from your silos and tanks, using self-powered, low-energy and contactless Terabee technology.

Key product features

- Non-intrusive measurements using LED ToF technology
- Optimal for small to large silos (0.5 to 60 m range)
- Battery-powered. Years of autonomy
- Low-power, wireless communication (LoRa WAN)
- Minimal installation efforts. Zero cables needed
- Comes with software for easy setup on Windows / Linux / Mac OS
- IP65 enclosure for all weather protection



Technical specifications

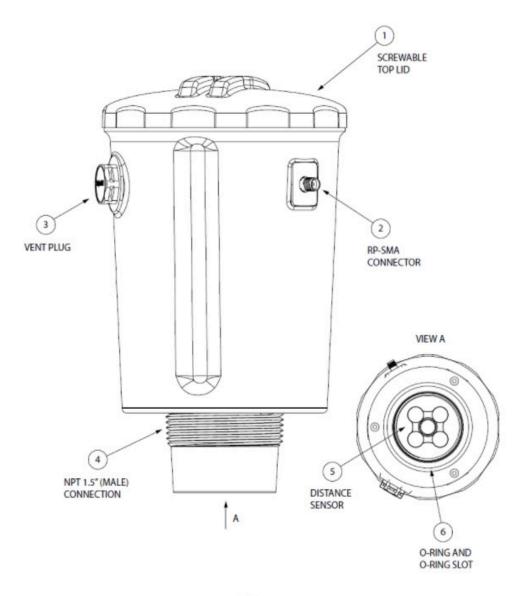
Detection Principle	Infrared Time-of-Flight	
Sensor Field of View	Approx. 2°	
Measured Detection Area	40 × 40 cm @ 10 m range	
Measurement Range ¹	0.5 m up to 60 m	
Accuracy ¹	Distance: Level:	±4 cm in the first 14 m, and ±1.5 % beyond 14 m Depending on application conditions
Output Distance Resolution	5 mm	
Data, Interfaces		
Data Output	Distance (in millimeters) Fill level (in percentage) Battery status (voltage)	
Measurement and Transmission Intervals (selectable)	1 reading / 1 day 1 reading / 6 hours 1 reading / 1 hour 1 reading / 15 mins	
Communication Interface	LoRaWAN (class A device) USB 2.0, Micro-B	
Configuration Interface	USB 2.0, Micro-B (under sealed cover)	
Antenna Options (supported LoRaWAN frequencies)	(1) EU 868 MHz (2) US 915 MHz	
LoRaWAN Activation methods	OTAA, ABP	
Antenna Specifications	+2dBi, IP67, hinged (3 positions)	
Visual Notification	1 x multicolor LED (under sealed cover)	
Activation Switch	Yes (under sealed cover)	
Electronics		
Power Source	(1) Internal battery, replaceable (2) USB 2.0, Micro-B (5V DC ±5%)	
Battery Type	Standard Type D, Lithium Thionyl Chloride, 3.6V, 19Ah	
Battery Lifetime Estimate ²	6 years @ 1 re	ading / 1 hour (3)
Mechanics		
Dimensions	170 mm x Ø 1	07 mm
Weight	405 g	
Housing Material	Polycarbonate	e, ABS
Housing Protection	IP65	
Ambient Operating Temperature	-20°C to 65°C	
Installation	surface attach	ous installation methods (onboard NPT 1.5 thread connection, flat ment using flange accessory, installation at various angles using acket accessory)
Other		
Use Environment	non-hazardous environments	
Supporting Software	Terabee Configuration GUI (compatible with Windows, Linux, Mac OS)	
Certification (Pending)	CE RoHS IP65 (CEI EN 6	0529) Bumps (EN 60068-2)

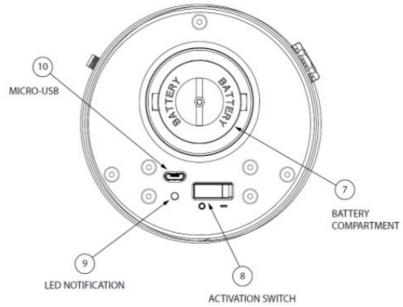
⁽¹⁾ Specifications are derived from tests in controlled conditions (target with 80% diffuse reflectivity, indoor fluorescent lighting, ambient temperature around 25°C). Please note that bright sunlight, target surface reflectivity, and large amounts of dust can affect sensor performance
(2) The battery life can vary depending on a number of factors, including selected transmission frequency, measured distance by the ToF sensor, ambient temperature & humidity,

LoRa network strength, and other factors.
(3) Battery lifetime calculations are based on operation conditions at +25 °C temperature, 10m measuring range (white target, 80% reflectivity), network configuration using spreading factor (SF) 7.



Onboard features and controls







Inside the package

Component	Note
Terabee LoRa Level Monitoring XL	
LoRa antenna	Available in two versions : 868 MHz 915 MHz
Standard Type D battery, 3.6V, 19 AH (replaceable)	Shipped inside the level device.
USB 2.0 Micro-B cable	Allows device connection to PC and access to Terabee Configuration Software. 50cm length.
O-ring	Ensures IP65 sealing between the Terabee device and installation point (e.g Terabee flange accessory)



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