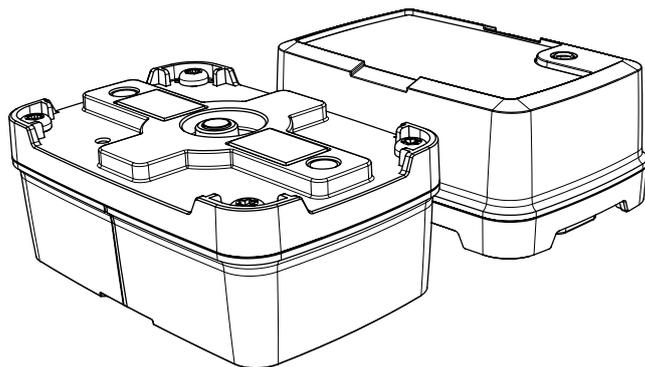


■ NEON Data Sheet

Temperature Sensor



Product	
Product name	TWTG NEON Temperature Sensor
Type identification	TS-868-01-xx / TS-915-01-xx / TS-923-01-xx Where "xx" indicates the applicable country. Visit https://www.twtg.io/markets/industry for more information
Connectivity	
Protocol	LoRaWAN Private LoRa-WAN, public LoRa-WAN upon request
Frequency band	868 MHz / 915 MHz / 923 MHz compatible Region specific frequencies and certifications upon request
Maximum RF output power	13.8 dBm
Functionality	
User interaction	Magnet key
Status notification	RGB LED
Accuracy	0.5°C (depending application and installation) For accurate (absolute) temperature measurement, insulation of the sensor and the measured object is required.
Message frequency	Every 4 hours Configurable over Lora Temperature trigger (alert) Temperature & time dependencies are configurable over LoRa
Message information	Temperature reading Min/Max/Average Battery condition
Mechanical	
Enclosure	Molded plastic
Color	NEON green
Dimensions	95x64x39mm
Weight	150g
Installation	
Required installation qualification	IEC 60079-14

Method	<p>Internal magnet for magnetic surfaces Flat surface, surface irregularities should be removed</p> <p>Adhesive for non-magnetic surfaces Surface should be clean, grease/fat free and irregularities should be removed</p> <p>Band clamp Dimension limits depending on available band clamp sizes</p>	
Battery		
Battery life	3-5 Years, at 25°C Depending on average ambient temperature and network quality	
Battery type (replaceable)	1x Type A	
Voltage	3.6 V	
Capacity	1x 3600 mAh	
Environmental conditions		
Operating temperature range	-40°C - 80°C	
Storage temperature range	10°C - 30°C	
Vibration	Per MIL-STD-202F	
Water & dust resistance	IP65	
Certification		
ATEX/IECEX rating	Ex II 2G Ex ia IIB T4 Gb	
ATEX/IECEX standards	EN IEC 60079-0 EN 60079-11	IEC 60079-0 IEC 60079-11
ATEX/IECEX certifications	18ATEX0106 DEK 18.0063	
FM Rating	Class I Division 1, Groups C, D; T4 Ta = -40°C to +80°C; Zone 1, Ex ia IIB T4 Gb Ta = -40°C to +80°C;	
FM Standards	FM Class 3810 CAN/CSA-C22.2 No. 60079-0 CAN/CSA-C22.2 No. 60079-11 CAN/CSA-C22.2 No. 61010-1	
FM Certificates	FM20US0015X FM20CA0007X	
Regional approvals	<p>CE EU: Covers RoHS, ATEX, RED</p> <p>FCC US & CA</p> <p>IMDA SG</p> <p>FM US & CA</p> <p>Other countries regional approvals can be certified upon request</p>	
Accessories and Spare Parts		
Type	Battery replacement kit	

