LETIsmart TAG By SCEN

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DATASHEET LETIsmart TAG BATT BOX604 SOLARE TX – P/N° 7V2475.43

DID YOU KNOW…

The TAG BATT BOX604 SOLARE TX is the device of the innovative LETIsmart system that allows communication between LETIsmart TAGs and the white cane usually supplied to blind / visually impaired citizens integrated by the VOCE system. Bi-directional communication allows the user to receive audio information (for example address and house number, or any personalized name or phrase) from the white cane handle regarding the presence of an infrastructure (pole or building) equipped with the LETIsmart system, and to INTERACT with the TAG itself, ALL from the white cane. The system then allows you to activate the directional sound of the TAG to be guided to the exact point of the infrastructure (pole of the bus stop and/or building entrance - hospital, public office, shop, home). The radio interface sends the encrypted communication on the 868Mhz LoRa band to make the system safe and uses a dedicated protocol to avoid overlapping between the various devices. Electronics is the result of a careful and in-depth engineering study that has led to a significant reduction of the device's electrical consumption. Finally, the TAG is contained in an IP55 in two color: 7V2475.42 White in UV resist ASA and 7V2475.43 Black self-extinguishing ABS box and it is equipped with a solar panel and an integrated battery to take advantage of the renewable energy of the sun during the day and not to stop working at night.

SUPPORTED LANGUAGES

ITA GBR USA ESP DEU FRA

ADVICE

- For a correct use, a training by a qualified Orientation and Mobility instructor is required.
- Any replacement, updates, installation or maintenance must be carried out by an authorized LETIsmart service center.

TECHNICAL FEATURES

Solar panel power	**1W**
Vbatt	**6VDC (5 batt. Ni-MH 2,2 Ah)**
Consumption	**12mW**
Radio connectivity	**Wireless LoRa**
Transmission band	**ISM – 868MHz**
TAG sound system	**In-circuit integrated buzzer with directional sound to reach the TAG**
Buzzer volume levels	**Configurable (Max 69db/m without box)**
Buzzer sound frequency	**2730Hz**
VOCE must be set in these modes to recognize the TAG	**- Urban information - Urban and commercial information**
TAG size and weight	**110x150x27mm; 400gr**
Operating temperature	**White=-10°C, +60°C Black= -10°C, +50°C**
IP degree	**IP55 (Ref. EN60529)**
Final code 7V2475.xx Color /Material box	**.42=White= ASA-UL94V-HB UV resist .43=Black = ABS-UL94-V-0 flame resist**

TAG LAYOUT and MOUNTING EXAMPLES

7V2475.42 WHITE color
7V2475.43 BLACK color
The TAG has two mounting polarities (TOP side):
-TOP-A = For pole mounting
-TOP-B = For wall mounting
See User Manual

COMPLIANCE

- **2014/53/EU RED** relating to the making available on the market of radio equipment.
- **EN 300 220-1 SRD + EN 300 220-2 V3.1.1** operating in the frequency range 25 MHz to 1 000 MHz.
- **EN 301 489-1** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.
- **EN 301 489-3** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz.
- **EN 60950-22:2006 + AC:2008** Information technology equipment - Safety - Part 22: Equipment to be installed outdoors.
- **EN/IEC 62368-1:2014 + AC 2015** Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- **EN/IEC 60529:1991** Degrees of protection provided by enclosures (IP Code).
- **EN/IEC 62479:2010** Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).
- **IPC A 610 G Class III** assembly standards, ESD conformity CEI EN 61340 5 1, J STD 001 and J STD 033.
- **2015/863/EU RoHS III** (leadfree) Directive.
- **Reach 1907/2006/EU_reg453/2010/UE SVHC** art31 Registration, Evaluation, Authorisation and Restriction of Chemicals.
- **Conflict Minerals Policy** Statement.