



DATASHEET TAG TAXI– P/N° 7V2475.07



DID YOU KNOW...

The LETismart TAG TAXI is the device of the innovative LETismart communication system between taxi and the white LETismart VOCE cane, usually supplied to blind and visually impaired citizens. The bi-directional communication allows the user to receive from the handle of the cane audio information about the number of the arriving taxi and it is possible to be guided on board thanks to the directional sound of the radio beacon, installed inside the vehicle.

The TAXI TAG is an Automotive device with an RS485 interface, that can be connected to the onboard control unit, for automatic updating, information exchange and system diagnostics or simply it can be powered by the cigarette lighter or USB socket.

The radio interface sends encrypted communication on the LoRa band at 868Mhz, to make the system secure and it uses a dedicated protocol to avoid overlap between the various devices.

SUPPORTED LANGUAGES



RECOMMENDATIONS

- Any replacement, updates, installation or maintenance must be carried out by an authorized LETismart service center.

TECHNICAL FEATURES

Power supply	12VDC
Consumption (stand-by)	200mW (phrase transmission and waiting for VOCE commands)
Consumption (active)	600mW (active sound system)
Communication protocol	RS485
Radio connection	Wireless LoRa
Transmission band	ISM – 868MHz
Connector	6poli MINI-FIT JR
TAG sound system	Buzzer integrated in the circuit with directional sound to reach the TAG
Buzzer volume level	Configurable (Max 69db/m without box)
Buzzer sound frequency	2730Hz
VOCE must be set in this mode to recognize the TAG	Bus & Taxi
Operating temperature	-20°C, +60°C
Material (box)	ABS Flame-resistant - UL94-HB
Width	58mm
Length	58mm
Height	31mm
Weight	140gr
Fixing	2 screws for 3.9mm holes on reclining steel flange

SYSTEM DIAGNOSTIC CONTROL

When the TAXI meets other vehicles or other LETismart systems (traffic lights, shops, canes or other), a “contact with other devices” is recorded. This contact certifies that the radio system works. The LETismart TAG TAXI counts the number of contacts during the day; the on-board computer, if connected, examines this data and informs of potential failure of the TAG, also in the radio functionality.

COMPLIANCE

- **2014/53/EU RED** relating to the making available on the market of radio equipment.
- **1999/519/EC** on the limitation of exposure of the general public to electromagnetic fields.
- **EN 300 220-1 V3.1.1 SRD** operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement.
- **EN 300 220-2 V3.1.1 SRD** operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for nonspecific radio equipment.
- **EN 301 489-1 V1.9.2** Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- **EN 301 489-3 V1.6.1** 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/IEC 62368-1** Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- **EN/IEC 62479** Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 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 e Conflict Minerals Policy Statement
- **Reach 1907/2006/EU_reg453/2010/UE SVHC** art31 Registration, Evaluation, Authorisation and Restriction of Chemicals.
- Perfectly integrated with systems that respect **2011/181/EU** passenger rights in transport to people with disabilities or reduced mobility.