

Trackunit Raw TU600A Regulations and Safety

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Regulations and Safety



Regulatory Information and Precautions

Use Location

This equipment design applies to commercial or industrial equipment expected to be installed in locations where only adults are normally present.

Terms of Use

Use only Trackunit approved accessories and/or batteries. Do not connect incompatible products.

New Battery

In case of battery malfunction, expiration or any other situation where a new battery might be needed, please contact Trackunit support.

CE and UK mark

We, Trackunit Aps hereby declare that the Trackunit TU600A product complies with the essential requirements of the RED Directive 2014/53/EU as stated by the EU Declaration of Conformity and the Radio Equipment Regulations 2017 – UK SI 2017 No. 1206. EU Certificate and Declaration of conformity (DOC) statements can be downloaded from the Trackunit website www.trackunit.com.

FCC mark

The TU600A-X product contains radio transmitters that comply with CFR 47 Part 15, Part 15.247, Part 22, Part 24, Part 27 and Part 90 of the FCC rules and with RSS-GEN, RSS-102, RSS-130, RSS-132, RSS-133, RSS-139 and RSS-247 of Industry Canada requirements.

Environmental

The TU600A product complies with the environmental conditions for heavy trucks defined in SAE J1455 when mounted inside the machinery hull and mounted outside the machinery with a HW shield.

Charging

The battery will recharge as long as its temperature range is within 0°C and +45°C / 32°F and 113°F and the vehicle to which the unit is mounted is running.

Operating Conditions

The internal battery will operate in temperature ranges from -20°C to +60°C.

In case of temperatures going outside of this range, the internal battery will be disabled by the device. Battery lifetime is expected to be three years under normal operating conditions.

Long Term Storage /Operating Conditions

It is recommended to remove the battery during long term storage/continuous operation outside the temperatures specified in the operating conditions. Battery lifetime is expected to be three years under normal operating conditions.

Fuse

Recommended fuse holders and fuses for installation up to 48V supply voltage (can be ordered at Trackunit ApS):

- a. Supply voltage 12V/24V (max. 30A)
 - 1. ATO blade fuses (max. 32V/1A) used with Littelfuse FHAC0002SXJ fuse holder (standard).
- b. Supply voltage 12V - 48V (max. 30A)
 - 1. FKS blade fuse (max. 80V/3A - ATO style) used with Littelfuse FH2 fuse holder (recommended).

Machinery

The TU600A product complies with the essential requirements of the Directive 2006/42/EC and EU regulation 2013/167 when integrated and used as intended:

I) EN 13309	Construction machinery
II) ISO 13766-1	Earth-moving machinery
III) EN/ISO 14982	Agricultural and forestry machines
IV) UN ECE R10 EMC rev. 5	Automotive ESA (Electronic Sub-Assembly) for integration into machinery.
V) EN 12895	Industrial trucks.

NOTE: Harmonized standards under the directive 2014/30/EU has been applied.

Safety Statements

FCC/IC part 15.19 Notice

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC part 15.21 Notice

Changes or modifications made to this equipment not expressly approved by Trackunit may void the FCC authorization to operate this equipment.

IC RSS-GEN Notice

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC/IC Radiofrequency Radiation Exposure Information

This equipment complies with FCC /IC radiation exposure limits set forth for an uncontrolled environment. This equipment may be installed and operated with a minimum distance of 20 cm between the radiator and the user.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Environmental Compliance

SAEJ1455 ,	EN/IEC 60068-2-1:2007	Cold
SAEJ1455,	EN/IEC 60068-2-2:2007	Dry heat
EN 50125-1,	EN/IEC 60068-2-27:2008	Shock
SAE J1455,	EN/IEC 60068-2-31:2008	Drop
EN 50125-1,SAE J1455,	EN/IEC 60068-2-64:2008	Random vibration
SAEJ1455,	EN/IEC 60068-2-78:2001	Damp heat steady state
SAEJ1455,	(IEC 60529+A1+A2)CSV:2013	Degrees of protection (IP code) : IP67

NOTE A: The TU600A is not to be mounted in areas with presence of motor oil, gasoline, diesel fuel, hydraulic fluid, brake fluid, transmission fluid, glycol and water mixture, etc.

NOTE B: The housing is not designed to withstand high pressure cleaning. Only use the TU600A when mounted inside the designated Trackunit protection cap (can be ordered at Trackunit ApS) in mounting areas where high pressure cleaning is common procedure.

Regulatory Labeling

The TU600A product family is regulatory compliant to the following regulations:



10R - 05 8766



FCC ID: ZMF-TU600A
IC: 9746A-TU600A



PTCRB Certification for Interoperability with Mobile Networks

The TU600A product is certified for PTCRB interoperability with mobile networks. Specific Trackunit certificate has been obtained for model TU600-15.

Bluetooth

The TU600A supports Bluetooth 5.1 BLE and long range location finding.



