



CONFIDENTIAL & PROPRIETARY

C033 ROTAREX BLE RC1010,

- . C-ABS Enclosure
- . Water resistant IP67
- . Long service life
- . Easy to install

Description of the system;

The C033 ROTAREX BLE transmitter is an autonomous transceiver that is used primarily for the telemetry, data transfer, Reporting, affixed to Rotarex Capacitive probe models.

C033 capabilities (RC1010);

The C033 has been developed in order to provide the following functionalities.

- Autonomous BLE transmitter that is used primarily for the telemetry.
- Data transfer,
- Reporting,
- Automated Inventory management,
- Radio identification

Internal component and circuit description.

The following components are included in the C033 enclosure:

- 1) Single PCB board
- 2) Primary lithium battery

The board performs all of the Radio transmit/receive control and telemetry functions as well as storage functions. The battery connects to the pcb board and is used to supply 3.6 Vdc operating voltage.

Technical & RF Specifications

General information

Dimensions (enclosure)

Height : 51.2 mm
Width : 50.4 mm
Length : 48.1 mm
Material : ASA plastic
Color : light gray or various (RGB etc...)

Battery

Type : Primary (non-rechargeable)
Chemistry : Lithium Thionyl chloride (SOCl₂),
Size: ¾ A-size
Capacity & Voltage 2.1Ah ~ 3.6 Vdc

Antenna

Type: PCB Trace

Tolerances

Operating temperature : -40 +60°C
Environmental norm : TBD

Specifications (RADIO)

Receiver

Freq. : 2402.000MHz ~ 2480.000MHz
Modulation : GFSK

Transmitter

Freq. : 2402.000MHz ~ 2480.000MHz
Modulation : GFSK
Output: 2.661 mW

Electrical

Primary : 3.6 Vdc
Internal: 3.6 Vdc

Certifications

Industry Canada RSS-247 Issue 2
FCC (USA) Part 15

FCC compliance statement:

This device complies with part 15 of the FCC Rules. 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

ISED compliance statement:

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

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.

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