



America

Certification Exhibit

**FCC ID: 2AKFQRT200
IC: 22165-RT200**

**FCC Rule Part: 15.231, 15.209
ISED Canada's Radio Standards Specification: RSS-210**

Project Number: 17-0001

**Manufacturer: Cognosos, Inc.
Model: RT-200**

Manual

Cognosos RT-200

Operational Description

The RT-200 is a small battery powered GPS tracking device mounted on the sun visor or rearview mirror of the vehicle being tracked. When the RT-200 senses motion, then senses a stop, the location of the vehicle is obtained through the GPS receiver, then the location and serial number are transmitted to one of the Cognosos Gateways, over a 433MHz 15.231 radio.

Activating/Deactivating a RT-200

The RT-200 is shipped deactivated and in 'shipping mode'. To bring the RT-200 out of 'shipping mode', the operator should gently double-tap the unit, 3 times in succession, with 2-3 seconds between double taps. The RT-200 LED will flash green for 10 seconds when first brought out of shipping mode. The RT-200 will look for a Cognosos Activator during this 10 second window. If the Activator is not found, the RT-200 will re-enter shipping mode. If the Activator is found and communication is established, the RT-200 will exit shipping mode and never re-enter, for the life of the RT-200, even during battery replacement.

Once communication is established between the RT-200 and Activator, the operator will command the RT-200 to be activated, deactivated or have the firmware upgraded, using the Cognosos Activator utility program.

Once activated, the RT-200 is ready to be placed into a vehicle and perform its tracking function.

The RT-200 must be within 10 meters of the Activator to establish communication. Once communication is established, the operator can activate, deactivate or have the firmware upgraded, using the Cognosos Activator utility program.

Replacing a battery

The RT-200 will blink the red LED intermittently upon detection of a low battery. Once a low battery is detected, the RT-200's battery life is between 1-3 weeks.

To replace the battery, remove the 4 screws holding together the top and bottom housing halves. Remove the battery and replace with a Cognosos approved Lithium Thionyl Chloride AA battery (3.6V, 2.4Ah). Assemble the top and bottom halves and install the 4 screws.

The RT-200 LED will flash green for 10 seconds when a new battery is installed. The RT-200 will look for a Cognosos Activator during this 10 second window. If the Activator is not found, the RT-200 will deactivate itself, but always be listening for the Activator signal.

Once communication is established between the RT-200 and Activator, the operator will command the RT-200 to be activated, deactivated or have the firmware upgraded, using the Cognosos Activator utility program.

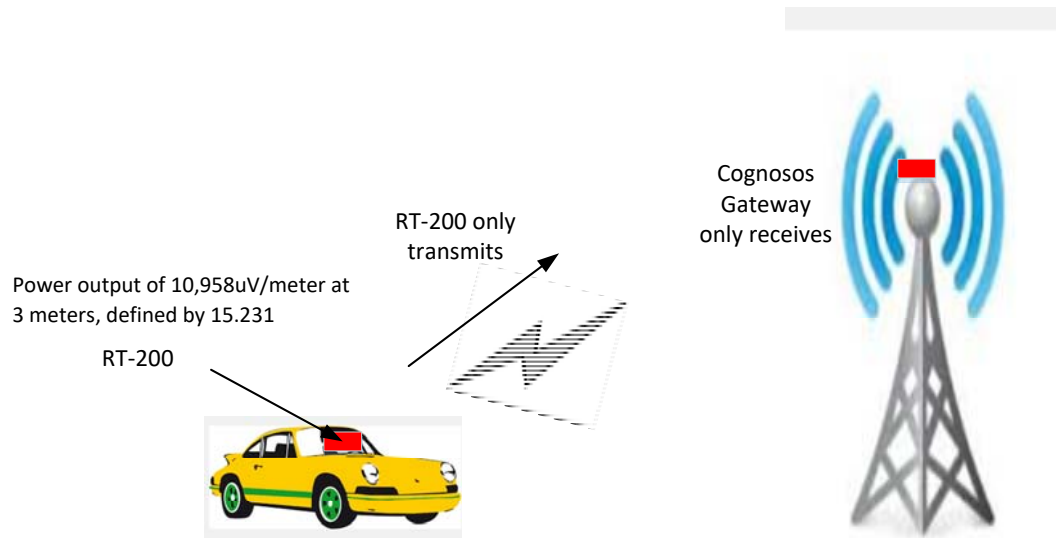
Once activated, the RT-200 is ready to be placed into a vehicle and perform its tracking function.

Vehicle Installation and Operation

An activated RT-200 is placed in the vehicle on the driver's side visor or hanging from the rearview mirror. Before installation, the operator will scan the RT-200 barcode into the car management software system, associating the vehicle with the RT-200.

System Operation

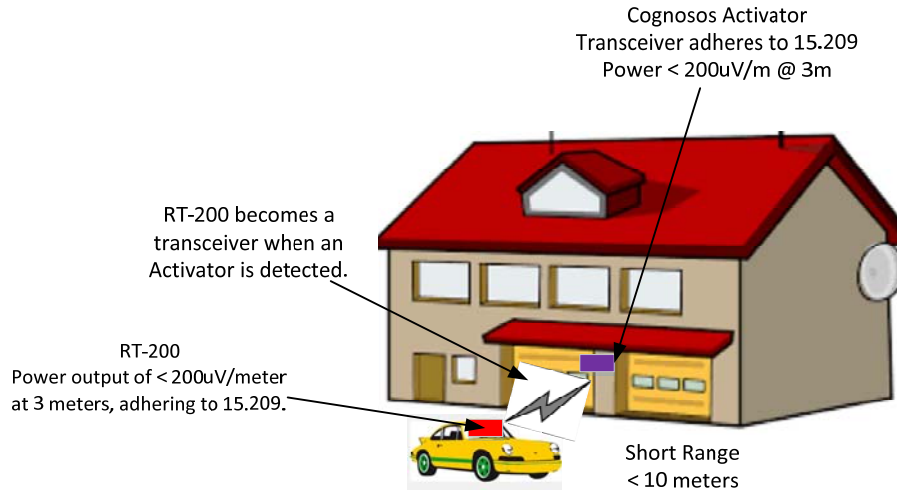
RT-200 Tracking Mode



- 1) Vehicle movement detected with accelerometer in the RT-200.
- 2) The RT-200 monitors its accelerometer and detects vehicle has parked.
- 3) The RT-200 acquires its location with the GPS receiver.
- 4) The RT-200 transmits a control message to the Gateway indicating that it has moved. The RT-200 also transmits its serial number and GPS coordinates. Transmission lasts 4.8 seconds.
- 5) The RT-200 transmits a control message to the Gateway indicating that the event that the RT-200 has not changed location within a defined time period (1 day). The RT-200 also transmits its serial number and GPS coordinates. Transmission lasts 4.8 seconds.
- 6) Gateway System Management is notified of the new RT-200's new location.

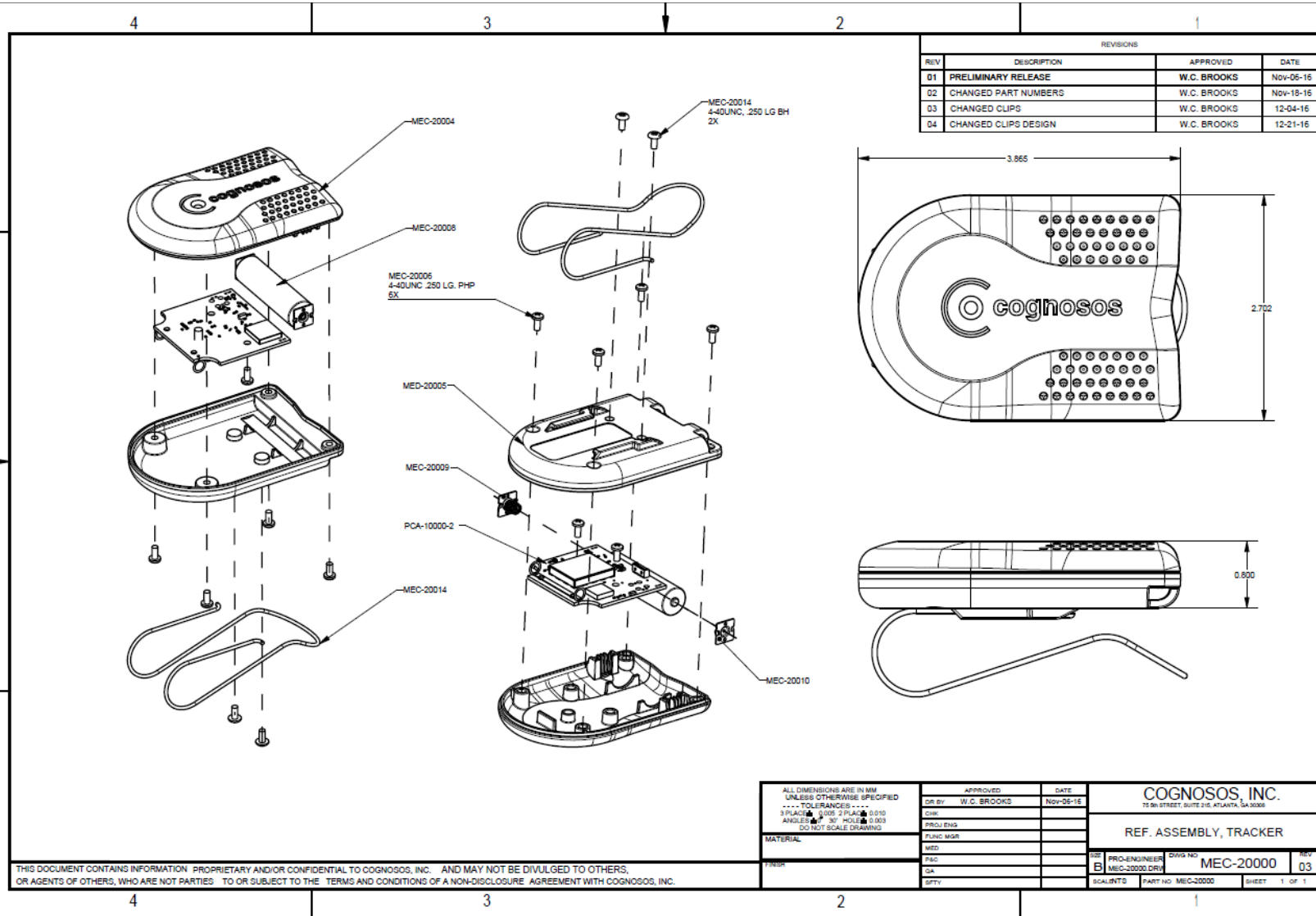
RT-200

Activator / Firmware Update Mode



- 1) RT-200 listens for special transmissions from Activators.
- 2) RT-200 must be very close to the Activator, less than 10 meters.
- 3) RT-200 enters '15.209' Mode.
- 4) Activator commands/controls the RT-200 for general system requirements and FW updates.

Assembly



REVISIONS			
REV	DESCRIPTION	APPROVED	DATE
01	PRELIMINARY RELEASE	W.C. BROOKS	Nov-05-15
02	CHANGED PART NUMBERS	W.C. BROOKS	Nov-15-15
03	CHANGED CLIPS	W.C. BROOKS	12-04-15
04	CHANGED CLIPS DESIGN	W.C. BROOKS	12-21-15

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED ---- TOLERANCES ---- 3 PLACES .005 2 PLACES 0.010 ANGLES 30° HOLES 0.003 DO NOT SCALE DRAWING	APPROVED	DATE	COGNOSKOS, INC. <small>7750 N. STREET, SUITE 210, ATLANTA, GA 30308</small> REF. ASSEMBLY, TRACKER
	DR BY: W.C. BROOKS	Nov-05-15	
	CHK		
	PROJ ENG		
	PLNC MGR		
	MED		
	PRC		
	CAK		
	QTY		

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ISS	PRO-ENGINEER	DWG NO	REV
B	MEC-20000.DRW	MEC-20000	03
SCALE	PART NO: MEC-20000	SHEET 1 OF 1	

Regulatory

Warning: Changes or modifications to this device not expressly approved by Cognosos Inc. could void the user's authority to operate the equipment.

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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 UNDESIRE OPERATION.

NOTE: This equipment has been tested and found to comply with the limits for a Class **B3** digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Radio/broadcast products shall comply with the requirements to include required notices and/or statements to the user of the product for each unit of the product offered for sale. The required notices shall comply with the following requirements:

- The notices shall be as specified in the applicable RSS regulation(s) to the product.
- These notices shall be shown in a conspicuous location in the user manual for the product, or to be displayed on the product - variable formats are acceptable for providing the notices (i.e. in paper form, CD, DVD, or insert with download link on the company's website).
- If more than one notice is required for multiple product versions, the product version to which each notice pertains should be identified.
- The suppliers of radio equipment shall provide the notices and/or statements in both English and French.
- In cases where the user notifications are only available in one language (English or French) at the time of the certification process, the applicant shall provide a declaration in writing that the user notices and/or statements to the user of the product will be in both English and French when the product is for sale and/or lease in Canada.

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 present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisee aux deux conditions suivantes : (1) /'appa reil ne do it pas produire de brouif/age , et (2
) /'ut ilisateu r de /'appare il doit accepter tout brouif/age
radioe lect rique sub i, meme si le brouif/age est susceptible d'en compromettre le fonctionnement.