



# RTX EASY Operational Description

**Date: 2012-06-22**

**R3**

REV.	DATE	DESCRIPTION	AUTHOR	APPROVED
R1	2011-10-28	First issues	SB	
R2	2012-06-04		SB	
R3	2012-06-22		SB	

## 1. Overview

The RTX EASY handheld is a professional remote control suitable for industrial and/or vehicle applications. Its main features are:

- Supply voltage: 3Vdc, 2xAAA Alkaline batteries
- Up to 6 function key other than START e STOP button
- Current consumption: < 5uA in stand-by status
- Backlighted keyboard activated through light sensor
- Passive Safety-Point (Tm)
- Tilting-Hand capability through 3 axis accelerometer
- Buzzer or vibration as user feedback
- Battery indication LED
- Transmission indication LED
- Operating distance: up to 150 m in line of sight and free field condition
- Operating temperature: -20 ÷ +70 °C
- Enclosure protection: IP67
- Shock proof
- Operating frequency: 915 - 918 MHz
- Type of communication: bidirectional half-duplex
- RF Chipset: NORDIC nRF905





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## 2. Operational description

The RTX EASY remote control is used in conjunction with Sistematica S.p.A CONTROLLER devices that acts the command sent by the user with the RTX EASY.

Each RTX EASY is produced with a unique 32 bit identification number lasered into the device memory. This number allow a pairing function between the remote control and the receiver which will accept commands only from the paired remote control.

The remote control has two main buttons, START and STOP allowing the user to start a new working session. The session normally will ends when the user push the STOP button or automatically at a timeout expiration from the last command sent (button 1 to 6).

The START command is always need before start working using the function button 1 to 6. This command is used to establish the radio link with the receiver.

The STOP button close the working session and produce the switch off of all the active outputs on the receiver side.

The integrity of the transmitted commands (START, STOP or function commands) is achieved through e 32 bit polynomial CRC.

Feedback of the right transmission and reception of the command is given to the user through specific green LED, buzzer beep or vibration.

A red LED warn the user about the status of the battery charge when it became too low for a proper function of the device.