



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

- Power supply: single cell LiPO battery 3,7Vdc, 1200mAh
- Current consumption: < 20 uA in stand-by status
- Double keyboard layout available, up to 8 function key or 4 button joy-pad other than 4 standard round function key
- Graphic display 128x128 pixel COG-FSTN with blue backlight
- Backlighted keyboard
- Passive Safety-Point
- Active Safety-Point (RFID integrated Tag-Reader)
- Tilting Hand capability through 3 axis accelerometer
- Emergency STOP mushroom
- Buzzer or vibration as user feedback other than display
- Operating distance: up to 150 m in line of sight and free field conditions
- Operating temperature: -20 ÷ +70 °C
- Enclosure protection: IP65
- Operating frequency: 915 - 918 MHz
- Type of communication: bidirectional half-duplex
- RF Chipset: NORDIC nRF905 Transceiver





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2. Operational description

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

Each RTX TREND-LCD is produced with a unique 32 bit identification number laseried 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 integrity of the transmitted 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 icons on the display.

The LCD give the possibility to the user to receive information from the CONTROLLER about the status of the machinery on which it is installed.

The basic information given to the user through the display are:

- Status of the battery
- Radio link established or not.

The RTX TREND-LCD function menu, the usage operation, the LCD layout and the information displayed on it are defined time to time by customer demand.