

## Introduction

Combi radio remote controls have two versions of the operating commands: digital upto 4 or 6-step joysticks, or analogical & proportional step-less joysticks, to control digital or analog manoeuvres. The receiver has a set of LEDs to report system status, providing greater safety and agility when anomalies have to be detected. It also has an RS-485 port to connect to PLCs, robots, variators or any peripheral equipment that requires information through serial port. It incorporates a multi-frequency, synthesized radio system that enables the operator to automatically change the working channel. These units accept several configurations depending on

**MASTER/SLAVE** : Two transmitters control two receivers.  
**PITCH & CATCH** : Two transmitters control one receiver,  
**TANDEM** : One transmitter controls two receivers.

## Technical Specification

Number of Commands	13/ 21/ 25 / 30 + Start - Stop - Horn
Response Time	<50ms
Active Emergency	<50ms
Passive Emergency	1.900 ms
Operating Range Distance	100m/328

## Transmitter

Operating Frequency	433 to 434 MHz/865 TO 870 MHz
Channel Spacing	25 KHz
Modulation	FM
RF Power Output	10m W.P.R.A.
Coding Key	FFSK
Trasmitting Power Consumption	80 mA
Standby Power Consumption	<800µA
Operating WorkingTime	16Hrs
Battery capacity & Ni-MH battery	7.2V, 2300mAh
Operating Temperature	-20°C to +70°C/-4°F to 158°F
Transmitter Weight	1.8Kg / 3.9 lbs
Protection Rating	IP 65
Operating Commands	2 Double-Axis Joystick
Casing Material	Polyamide 6 - 6 reinforced with 15% fiberglass
Indicator Leds	Transmission indicator & low battery on separate leds



TRANSMITTER

RECEIVER

## Battery Charger details

Power Requirements	230/110 VAC
Dimensions	90 x 110 x 65 mm
Battery Charging Time	7 - 8 Hrs
Temperature Charging Range	0°C to +40°C / - 32°F to 104°F
Weight	200g / 0.44lbs

## Receiver

RF Sensitivity	0.3mV
Number of Commands	12/21 + 3 (Start-Horn + 2 Stop)
Relays	Resistive load: 5A + 5A at 250Vac or 30Vdc
Power Requirements	48/110/220 VAC (-20% +15%)
Display	By means of 6 LEDS
Wiring	By Itowa Connector of 48 pins
Dimensions	External 374 x 274 x 116mm
Fuses	Emergency Stop Function 7.5A
Weight	with Fastening 3.80kg / 8.44lb
Protection Rating	IP 65
Fastening	By nut bolts, DIN rail or Magnetic
Operating Range	100m