

# Itowa

*Radio Remote Control Systems*

## TUNNER

Remote control for cranes



### THE ESSENCE OF RADIOCONTROL

The TUNNER range of Radio Remote Controls incorporates within its compact size all the functions of a basic radio remote control. The compact yet rugged transmitter has 7 double depression pushbuttons and an emergency stop. It has been designed to suite most industrial applications.

As a standard, its design incorporates the advanced feature of Intelligent Changing Frequency Management GCFI. The manufacturing, using new durable materials provides the equipment with a greater resistance to either harsh weather conditions or possible impacts.



# TUNNER

Remote control for cranes

The TUNNER range has either 4 or 6 double depression pushbuttons, and another pushbutton for the start manoeuvre. There are 4 leds which supply the operator with visual indications of the systems status.

The system is supplied with a small receiver which is more modular and versatile in design. It can be wired via a connector or stuffing box, with optional magnetic mounting.

The complete system has been designed so that it can be manipulated without tools, not only the transmitter but also the receiver. This reduces the costs of technical assistance to facilitate in the programming and configuration of the system.

The equipment incorporates the advanced feature of Intelligent Changing Frequency Management GCFI. This technology enables the equipment to detect and select the most adequate channel within the frequency band, avoiding possible interferences.

## TECHNICAL SPECIFICATIONS Tunner

Number of commands Up to 9 + Start /Horn + Stop  
Hamming distance  $\geq 6$   
Responding time  $< 50$  ms  
Active emergency responding time  $< 50$  ms  
Passive emergency responding time 1900 ms  
Operating range distance 90 m

### TRANSMITTER

Operating range frequency UHF UN 39 from C.N.A.F. (868.000 to 870.000 MHz)  
Other frequencies available.  
Channel spacing 25kHz  
Modulation FM  
RF power output 10mW A.R.P  
Coding key FFSK  
Transmitting power consumption  $< 80$  mA  
Standby power consumption  $< 800$   $\mu$ A  
Battery capacity and type Removable battery NiMH 3.6V  
Operating working time 18 hours + 10 minutes after low-battery led flashes  
Operating temperature  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
Transmitter Approx. Weight (Without battery) 0,325 kgs  
Dimensions 170 x 70 x 55 mm / 6,69 x 2,75 x 2,17 in

### RECEIVER

RF Sensitivity 0.3 mV  
Number of commands 9 (Start-Horn + 2 Stop)  
Relays Resistive load: 5 A + 5 A at 250 Vac or 30 Vdc  
Power requirements 48 Vac / 110 Vac ( $-20\%$  +  $15\%$ ) in accordance with EN 60047-5-1  
Display By means of 6 leds  
Maximum consumption 0,1 A (48 Vac) / 0,05 A (110 Vac)  
Other Voltages available  
Wiring By Itowa connector of 26 pins.  
Dimensions External 190 x 83 x 165 mm (with support) / 7,48 x 3,27 x 6,5 in  
Fuses Emergency Stop Function 3 A  
Weight With Fastening 0,890  
Protection rating IP 65  
Fastening By nut bolts, DIN rail or magnetic

### BATTERY CHARGER

Charger power supply 100-240 Vac (max 3VA)  
Battery charging time 8 hours  
Protection rating IP30  
Dimensions 105 x 75 x 45 mm / 4,13 x 2,95 x 1,77 in



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Design and specifications subject to modifications without prior warning.