

# Itowa ✪

Radio Remote Control Systems

## WINNER

Remote control for cranes



### ACTUAL, ADVANCED, IMPROVING IN RADIOCONTROL

The WINNER range has been designed to enable advanced control over a wide variety of applications. Its design allows the greatest amount of features a radio remote control can have. The transmitter, with 10 double pushbuttons has 5 status leds, which display either the system status or special functions.

Its design allows the possibility to incorporate the latest technological advances such as the infrared system (IR) or the Intelligent Changing Frequency Management (GCFI).

The manufacturing using new durable materials provides the equipment with a greater resistance either to weather conditions or to possible impacts.



# WINNER

## Remote control for cranes

The WINNER range of Radio Remote Controls have 10 double pushbuttons and allow up to 4 pushbuttons or 2 pushbuttons plus 2 lateral selector switches for auxiliary functions.

The battery is placed in the transmitter's cover by means of an automatic closing system. The new belt fastenings are interchangeable, so in case of break it will not be necessary to replace the transmitter's cover.

The whole set is completed with the new receiver, which is more modular and versatile in design. It can be wired via a connector with the option of magnetic fastening. It is also supplied with the intelligent battery charger.

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



## TECHNICAL SPECIFICATIONS Winner

- Number of commands Up to 21 + 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 / 295 ft

### TRANSMITTER

- Operating range frequency UHF UN 30 from C.N.A.F. (434.050 to 434.775 MHz)
- UHF UN 30 from C.N.A.F. (433.075 to 434.775 MHz) \* \*
- UHF UN 32 from C.N.A.F. (433.050 to 434.775 MHz) \*
- UHF UN 39 from C.N.A.F. (868.000 to 870.000 MHz)
- 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 11 hours + 10 minutes after low-battery led flashes (Conventional)
- 24 hours + 15 minutes after low-battery led flashes (Winner GCFI)
- Operating temperature  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Transmitter Approx. Weight (without battery) 0.6 kg / 1,33 lb
- Battery weight 121g / 0,27 lb
- Dimensions 236x66x66 mm / 9,29x2,60x2,60 in

### RECEIVER

- RF Sensitivity 0.3 mV
- Number of commands 12 / 21 + 3 (Start/Horn + 2 Stop)
- Relays Resistive load: 5 A + 5 A at 250 Vac or 30 Vdc
- Power requirements 48 Vac / 115 Vac / 230 Vac (-20% +15%)
- in accordance with EN 60047-5-1
- Display By means of 6 leds
- Maximum consumption 0,9 A (48 Vac) / 0,5 A (115 Vac) / 0,2 A (230 Vac)
- Wiring By Itowa connector of 48 pins.
- Dimensions External 374x274x216 mm / 14,72x10,79x8,50 in
- Fuses Emergency Stop Function 7,5 A
- Weight With Fastening 4,20 kg / 9,33 lb
- Protection rating IP 65
- Fastening 3mm bichromatic steel
- By nut bolts or magnetic

### BATTERY CHARGER

- Charger power supply 230 Vac / 14 Vdc
- Power requirements 12 Vdc / 24 Vdc
- Battery charging time 7-8 hours
- Protection rating IP30
- Dimensions 105x48x91 mm / 4,13x1,89x3,58 in

\* Operating range frequency only applicable in some countries.  
\*\* Operating range frequency only applicable in Spain.



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Design and specifications subject to modifications without prior warning.



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