

# Itowa ✪

Radio Remote Control Systems

**35**  
1986 / 2021  
Years

## RUNNER

Remote control for cranes and machinery



### COMPACT DESIGN FOR GREATER COMFORT

The RUNNER series has been specifically designed to satisfy the needs of wireless control in the industrial sector. Thanks to the small size of the transmitter with 9 or 11 double effect pushbuttons, we reach the control of basic functions in a comfortable and precise way.

This remote control has been conceived to provide easy operation and maximum control without renouncing on safety and reliability.

With a light but robust design, we have achieved a compact equipment with high quality.



# RUNNER

Remote control for cranes and machinery

The RUNNER series has 2 different push-button models: RUNNER 9 and RUNNER 11, depending on the number of push-buttons. All models include 4 high brightness LEDs for displaying the transmitter status.

Its design allows its configuration and programming without having to open the button panel, thus reducing the costs of technical assistance.

The unit incorporates the advanced GCFI Intelligent Frequency Change Management system. With this technological improvement, the equipment has the capacity to detect interferences and position itself in another channel of the band so quickly that it avoids the fall of the general contactor.



## TECHNICAL SPECIFICATIONS Runner 9 - 11

Hamming distance	≥6
Responding time	<50 ms
Active emergency responding time	<50 ms
Passive emergency responding time	1600 ms
Operating range distance	100 m

### TRANSMITTER

Operating range frequency	433-434 MHz 868-870MHz.
Channel spacing	25kHz
Modulation	FM
RF power output	10mW P.R.A.
Coding key	FFSK
Consumption at work	< 60 mA
Consumption on stand-by	< 800 μA
Battery capacity and type	Removable battery NiMH 3.6V
Autonomy	10 hours
Temperature range	-20°C to +70°C
Approximate weight	With battery and shoulder strap 325 g
Dimensions	170 x 70 x 55 mm
Protection	IP 65
Actuators	8-10 double pushbuttons, Start - Aux and Emergency stop button

### BATTERY CHARGER

Charger power supply	100-240 Vac (Max. 3 VA)
Battery charging time	2 hours approx.
Protection	IP30
Dimensions	75 x 95 x 50 mm

Compatible with receivers:



#### IT3R10

Number of commands	10 (9+Start-Horn) + 2 Stop
Relays	
Power requirements	Resistive load: 5A at 250Vac or 30Vdc 48Vac/230Vac (-20% +15%) (*) 24Vac / 24Vdc (-20% + 15%)
Dimensions	190x83x165 mm
Safety level	Category 4 - SIL3/PLe
Protection rating	IP65



#### IT3R16

Number of commands	16 (15+Start-Horn) + 2 Stop
Relays	
Power requirements	Resistive load: 5A at 250Vac or 30Vdc 48Vac/115Vac/230Vac (-20% +15%) 24Vac / 24Vdc (-20% + 15%)
Dimensions	290x200x80 mm
Safety level	Category 4 - SIL3/PLe
Protection rating	IP65



#### IT3R22 (RXV06)

Number of commands	22 (21+Start-Horn) + 2 Stop
Relays	
Power requirements	Resistive load: 8A at 250Vac or 30Vdc 48Vac/115Vac/230Vac (-20% +15%) 24Vac / 24Vdc (-20% + 15%)
Dimensions	374x274x110 mm
Safety level	Category 4 - SIL3/PLe
Protection rating	IP65

#### IT3RBUS

No. of orders	BUS + 2 Stop
Same features as IT3R10	
Compatible with the following protocols:	



(\*) Other power supplies available on request



Radio Remote Control Systems

Faraday, 159 - 08224 TERRASSA (Barcelona) SPAIN  
Tel. +34 93 733 98 50 - Fax +34 93 789 13 51  
http://www.itowa.com - e-mail: info@itowa.com