

Itowa

Radio Remote Control Systems

COMPACT

Remote control for cranes



LIGHT, EASY-TO-HANDLE AND ECONOMICAL

The Compact range includes two models of push-button casings with 8 and 12 double-speed push-buttons. Selectors can also be incorporated, thereby meeting the specific needs of each application.

Its ergonomic design is ideal for the remote control of industrial or building cranes, or any type of electro-mechanical machinery. A significant reduction in staff costs and time can be achieved, together with increased safety at work.



COMPACT

Remote control for cranes

COMPACT radio-control units meet the most stringent safety regulations. The receiver has an LCD display reporting system status, providing greater safety and agility if anomalies are detected. It also has an RS-485 serial port to connect to PLCs, robots, variators or any peripheral equipment that requires information through the serial port.

The main features of the COMPACT range are its design and ergonomics.

It incorporates a multi-frequency, synthesized radio system that enables the operator to automatically change the working channel.

These units accept several operation configurations depending on each application.

MASTER/SLAVE: Two transmitters control two receivers.

PITCH & CATCH: Two transmitters control one receiver.

TANDEM: One transmitter controls two receivers.



TECHNICAL SPECIFICATIONS Compact 8 / Compact 12

Number of commands	12 / 20 + Start - Stop - Horn
Responding time	< 50 ms
Active emergency responding time	< 50 ms.
Passive emergency responding time	1.900 ms
Operating range distance	200 m / 656 ft

TRANSMITTER

Operating range frequency	Standard : UHF 433.050 MHz - 434.775 MHz , others available.
Channel spacing	25 kHz
Modulation	FM
RF power output	10 mW A.R.P.
Coding key	FFSK
Transmitting power consumption	90 mA
Standby power consumption	< 800 μ A
Operating working time (20°C/68°F)	Approx. 11 hours + 30 minutes after low-battery led flashes.
Battery capacity and type	Ni-MH battery 7'2 V, 1.500 mAh
Battery weight	200 g / 0,44 lb
Operating temperature	- 10 °C to + 55 °C / 14 °F to 131 °F
Casing material	Polyamide 6-6 reinforced with 30% fibreglass
Transmitter weight	495 g (1,09 lb) (Compact 8) / 630 g (1,39 lb) (Compact 12)
Protection rating	IP 65
Operating commands	Double-speed push-buttons
Indicator leds	Transmission indicator and low-battery on separate leds

RECEIVER

RF Sensitivity	0'3 μ V at 12 dB S/N
Outputs	Digitals by relays 5 A, 30 Vdc / 5 A, 250 Vac with resistive load (cos ϕ =1) Comm. Port. RS-485
Display	LCD display matrix 2x16 reporting system status
Power requirements	48 Vac / 115 Vac / 230 Vac (available 24 Vdc / 12 Vdc)
Consumption 16 relays	0,14 A at 230 Vac / 0,29 A at 115 Vac / 0,7 A at 48 Vac
32 relays	0,18 A at 230 Vac / 0,35 A at 115 Vac / 0,9 A at 48 Vac
Casing material	Polyamide 6-6 reinforced with 30% fibreglass /GWPLAST
Dimensions 16 relays	255x200x95 mm / 10,04x7,87x3,74 in
32 relays	315x235x120 mm / 12,40x9,25x4,72 in
Weight	2'8 kg (6,17 lb) (16 relays) / 4'3 kg (9,48 lb) (32 relays)
Protection rating	IP 65

BATTERY CHARGER

Power requirements	230 Vac (available 110Vac)
Dimensions	73x69x72 mm / 2,87x2,71x2,83 in
Battery charging time	8 hours
Temperature charging range	0 °C to 40 °C / 32 °F to 104 °F
Weight	200 g / 0,44 lb



AMPI

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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