



### CONTROLLED PUMPING

The BETON range has been specifically designed to control concrete pumps. Thanks to its versatility, it's used for the remote control of all types of digital or analogical concrete pumps and electro-hydraulic applications either On/Off and/or proportional.

By allowing the mobility of the operator, it guarantees a significant reduction in personnel and maintenance costs, and offers greater security in the control of certain manoeuvres by eliminating blind spots, etc.

As this is a radio remote control without the need for cables, speed is increased in operations, leading to greater profitability.



# BETON

## Remote control for concrete pumps

The BETON remote control, available with two or three 4x1 manipulators, stands out for its robustness and high quality. Its unique, lightweight and handy design has been conceived to meet the multiple needs of concrete pumps remote controls. It comes with a protective frame that prevents the accidental activation of any manoeuvre.

Additional selectors, pushbuttons and manipulators can be incorporated in order to configure each application. The analogue version for proportional concrete pumps is also available.

The BETON model incorporates a multi-frequency synthesized radio system that allows the user to change the working channel automatically.



## TECHNICAL DESCRIPTION Beton

Number of commands 13 / 21 / 25 + Start - Stop - Horn  
 Responding time < 50 ms  
 Active emergency responding time < 50 ms.  
 Passive emergency responding time 1.600 ms  
 Operating range distance 100 m / 657 ft

### TRANSMITTER

Operating frequency range 433 to 434 MHz/868 to 870 MHz  
 Channel spacing 25 kHz  
 Modulation FM  
 RF power output 10 mW P.R.A.  
 Coding key FFSK  
 Transmitting power consumption 80 mA  
 Standby power consumption <800µA  
 Autonomy (20°C/ 68°F) 16 hours  
 Battery capacity and type Ni-MH 7,2V battery and 1.500mAh  
 Operating temperature -20°C to +70°C / -4°F to 158°F  
 Casing material Polyamide 6-6 and 15% fiberglass  
 Transmitter weight 1,8 Kg / 4 lb  
 Protection rating IP 65  
 Operating commands 2 dual-axis analogue joysticks or up to 3 single-point dual-axis joysticks  
 Led indicators Low Battery Leds and Transmission Leds

### BATTERY CHARGER

Power requirements 24 Vdc  
 Dimensions 90 x 105 x 65 mm  
 Battery charging time 2,5 hours  
 Charging temperature 0°C a 40°C / 32°F to 104°F  
 Weight 200g / 0,44 lb



Compatible with the receivers:



	IT3R22 - IT3R26 (RXV06)	RX MF2 16	IT3R16
Relays output	22 (21+Start-Horn) + 2 Stop 26 (25+Start-Horn) + 2 Stop 30 (29+Start-Horn) + 2 Stop	----	16 (15+Start-Horn) + 2 Stop
Relays and analogue output	16 + Start-Horn + 2 Stop +7 analogical for bipolar and unipolar voltages	14 (13+Start-Horn) + 2 Stop +7 analogical PWM	----
Relays Power requirements	Resistive load: 8A to 250Vac or 30Vdc 24Vdc (-20% +15%)	Resistive load: 5A to 250Vac or 30Vdc 24Vdc (-20% +15%)	Resistive load: 5A to 250Vac or 30Vdc 24Vdc (-20% +15%)
Dimensions	374x274x110 mm / 14,72x10,78x4,33 in	255x200x95 mm / 10x7,87x3,74 in	290x200x80 mm / 11,41x7,87x3,14 in
Security level	Category 4 - SIL3/PL 4	Category 4 - SIL3/PL 4	Category 4 - SIL3/PL 4
Protection rating	IP65	IP65	IP65

Design and specifications are subject to change without notice. 02/2021



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](mailto:info@itowa.com)