

Radio Remote Control Systems

BETON

Remote control for concrete pumps



As the operator now is able to move around freely, a significant cost saving in staff and maintenance is guaranteed. It also provides greater safety in the control of certain manoeuvres by eliminating blind spots, etc. As it is a radio remote control without the need for cables, speed is increased in operations, leading to greater profitability.

The robust and top quality BETON remote control, is available with two or three dualaxis single-step digital joysticks. Its exclusive, light and easy-to-use design has been created to meet the multiple remote control needs of concrete pumps. It is supplied with a protective frame to prevent it from accidentally being turned on.

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.

To configure each application, selectors, push-buttons and additional operating commands can be incorporated. The analogical version for proportional concrete pumps is also available.

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

TECHNICAL DESCRIPTION Beton

Number of commands 13 / 21 + Start - Stop - Horn Responding time < 50 ms

Active emergency responding time $< 50 \, \text{ms}.$ Passive emergency responding time 1.900 ms Operating range distance 200 m / 656 ft

TRANSMITTER

Operating frequency range

Channel spacing Modulation RF power output Coding key

Transmitting power consumption Standby power consumption Operating working time (20 °C / 68 °F)

Battery capacity and type Battery weight Operating temperature

Casing material Transmitter weight Protection rating Operating commands Standard: UHF 433.050 MHz -434.775 MHz,

others available 25 kHz

FΜ 10 mW A.R.P. **FFSK** 80 mA

11 hours + 30 minutes after low-battery led flashes

Ni-MH battery 7,2V , 1.500 mAh

200 g / 0,44 lb -10 °C to 55 °C / 14 °F to 131 °F

Polyamide 6-6 reinforced with 15% fibreglass

1,8 kg / 3,97 lb

IP 65

Two dual-axis fully proportional and analogical step-less joysticks or up to three dual-axis digital

single-step joysticks.

Indicator leds Transmission indicator and low-battery

on separate leds

RECEIVER

RF Sensitivity $0'3\mu V$ at 12 dB S/N Outputs

DIGITAL: by relays 5A 30Vdc / 5A, 250Vac with resistive load (cosø=1)

Comm. Port. RS-485 ANALOGICAL: by tension:

bipolar (0-5 V, ± 5 V, 0-10 V, ± 10 V) and unipolar (2/4/6 V, 3/6/9 V, 6/12/18 V), other values adjustable from the transmitter

by the operator.

24 Vdc Power requirements Display

LCD display matrix 2x16 reporting system status

1,5 A at 24 Vdc 1,8 A at 24 Vdc

Polyamide 6-6 reinforced with 30% fibreglass 255x200x95 mm / 10,04x7,87x3,74 in 315x235x120 mm / 12,40x9,25x4,72 in

32 relays 2'8 kg (6,17 lb) (16 relays) / 4'2 kg (9,48 lb) (32 relays) Weight

Protection class

32 relays Casing material

BATTERY CHARGER

Consumption 16 relays

Dimensions 16 relays

Power requirements Dimensions Battery charging time Temperature charging range Weight

24 Vdc 73x69x72 mm / 2,87x7,21x2,83 in 8 hours 0 °C to 40 °C / 32 °F to 104 °F 200 g / 0,44 lb





