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

**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 / 567 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**: < 800 µA
- **Autonomy**: (20°C / 68°F) 16 hours
- **Battery capacity and type**: Ni-MH 7,2V battery and 1,500 mAh
- **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**: 73x69x72 mm / 2,87x2,71x2,83 in
- **Battery charging time**: 7.8 hours
- **Charging temperature**: 0°C a 40°C / 32°F to 104°F
- **Weight**: 200g / 0,44 lb

Compatible with the receivers

<table>
<thead>
<tr>
<th>Relays output</th>
<th>RX MF2 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 (21 + Start-Horn) + 2 Stop</td>
<td>14 (13 + Start-Horn) + 2 Stop</td>
</tr>
<tr>
<td>26 (25 + Start-Horn) + 2 Stop</td>
<td>+7 analogical PWM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relays and analogue output</th>
<th>IT3R22 - IT3R26 (RXV06)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 + Start-Horn + 2 Stop</td>
<td>Resistor load: 5A to 250Vac or 30Vdc 24Vdc (-20% +15%)</td>
</tr>
<tr>
<td>25x200Ω or 25x200Ω</td>
<td>25x200Ω or 25x200Ω</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Power requirements</th>
<th>374x274x110 mm / 14,72x10,78x4,33 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Category 4 - SII3/PL 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Security level</th>
<th>IT3R16</th>
</tr>
</thead>
<tbody>
<tr>
<td>+7 analogical PWM</td>
<td></td>
</tr>
<tr>
<td>Resistor load: 5A to 250Vac or 30Vdc 24Vdc (-20% +15%)</td>
<td></td>
</tr>
<tr>
<td>290x200x80 mm / 11,41x7,87x3,14 in</td>
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<tr>
<td>Category 4 - SII3/PL 4</td>
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</tbody>
</table>

Design and specifications are subject to change without notice. 10/2019

Itowa®
Radio Remote Control Systems

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