Radio Crane Control Systems

Catalog 31.500 New Hubbell Radio Remote Control Systems

31.720  Compact Mid-Size Transmitter - CMSTX
31.730  Handheld Two-Speed Pendant Transmitter - PTX
31.740  Compact Receiver Module
    31.510  AC Radio System
    31.520  DC Radio System

Hubbell Radio Control Systems use the latest synthesizer technology and GFSK modulation. Each system also incorporates Listen Before Talk (LBT) transmission before communication is established. The radio system operates on a non-licensed frequency band of 433.10 - 434.75 MHz or 915 MHz. Typical operating range is up to 300 ft. line of sight.
**31.720 Compact Mid-Size Transmitter - CMSTX**

**Data Feedback**
- Range
- Transmitter signal strength
- Status of the function
- Customized data feedback information and logos on request

**LBT Frequency Search**
When switching on or when switching the frequency, a check is made to determine whether the frequency channel used is reserved by another transmitter. If this is the case, the next frequency channel is checked until it is ensured that the transmitter can operate without faults.

**Battery**
7.2 V battery system with charger
NiMH / 1500 mAh
Operating time: < approx. 48 hours on a single charge

**Bellows**
Lever stick protection for particularly heavy-duty applications

**Technical Information**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Frequency band</td>
<td>433.100 – 434.750 MHz 915 MHz 67 Channels</td>
</tr>
<tr>
<td>RF output</td>
<td>&lt; or = 10 mW</td>
</tr>
<tr>
<td>Operating range</td>
<td>≤ 300 ft</td>
</tr>
<tr>
<td>Antenna</td>
<td>integrated</td>
</tr>
<tr>
<td>Response time of control command</td>
<td>15 ms</td>
</tr>
<tr>
<td><em>SMJ-Technology</em></td>
<td>easy change of the joy/lever stick</td>
</tr>
<tr>
<td>Advance alert &quot;battery empty&quot;</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Data Feedback</td>
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</tr>
<tr>
<td>Operating temperature range</td>
<td>-20 to +65°C</td>
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<tr>
<td>IP-Protection class</td>
<td>IP65</td>
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*SMJ technologies (Surface Mounted Joystick). Change of joystick without opening the housing, easy to make a replacement service, anti twist protection*

**Accessories**
Carrying Harness
Practical carrying system with waist and neckbelt

The remote transmitter is housed in a lightweight, weatherproof case (IP65) suitable for most industrial environments. The transmitter offers up to 6 single-axis bellows flag switches with detents for the main control motions and 8 pushbuttons for auxiliary function control. The flag switches have up to 5 detents (5 speed points), proportional (stepless) - surface mount switch (SMJ technology) and can be replaced without opening the transmitter housing. Stepless flag switches (no detent) are also available.

The key operated “On-Off” switch controls power to the transmitter and the “E-Stop” mushroom head button controls the main line. (E-Stop operates as push “Off” and twist-turn “On”). An LCD display indicates transmitter operation: start-up menu, battery strength, signal strength, and crane function.

The transmitter is powered by a 7.2 volt nickel-metal hydride (NiMH) rechargeable battery. The battery provides up to 48 hours operating time on a single charge. The transmitter will automatically shut down after a specified time of non-use.
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- Range
- Transmitter signal strength
- Status of the function
- Customized data feedback information and logos on request

**LBT Frequency Search**
When switching on or when switching the frequency, a check is made to determine whether the frequency channel used is reserved by another transmitter. If this is the case, the next frequency channel is checked until it is ensured that the transmitter can operate without faults.

**Battery Options**
3.6 V battery system with charger
NiMH / 750 mAh
Operating time: < approx. 40 hours on a single charge

**Power Supply**
2 x AA NiMH batteries
Operating time: 40 hrs.

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**Accessories**
Charging Cradle for pushbutton transmitter with wall bracket
Practical charging cradle for quick charging. Can be mounted in buildings and vehicles. (Only in combination with AA batteries, not possible with 3.6 V battery) See photo on right.

Carrying Belt
Practical carrying belt for small hand-held transmitters.

Carrying Bag
Practical carrying bag as protection against coarse dirt.
**Technical Information**

**Power Supply**
- 45 - 250 VAC
- 250 VDC / 24 VDC

**Outputs**
- Up to 40 relays (Over 40 relays, consult factory)
- + 3 optocoupler outputs
- Contact Rating: 8A, 250VAC / 24VDC
- Max carrying current: 10A
- 4-20 MA, 0-10V
- CAN bus
- RS232, RS485
- PROFIBUS

**Emergency stop relay**
Forcibly actuated

**Antenna**
External 25 feet of antenna cable and BNC connector

The receiver includes an LED display (two LEDs) for identification of operation and faults. The system includes antenna kit with mounting bracket and 25 feet of antenna cable and BNC connector. It is available in AC or DC power.

The AC receiver can be configured for 45 VAC - 250 VAC power. The module consists of up to 40 relay outputs.

The DC receiver operates on 250/24 VDC power. The module consists of up to 40 transistor outputs that drive intermediate relays that will pick up the DC Crane contactors.

Both the AC and DC receiver module is panel mounted with mating connector including 7.5 feet of multi-conductor cable (loose end wire). The unit is housed in a weatherproof case (IP65).