# CATTRONCONTROL ™

# EXCALIBUR™
# OPERATOR CONTROL UNIT

**HIGHLIGHTS**

- Compact, ergonomic and lightweight pushbutton control units for cranes, lifting equipment and a diverse range of machines
- Compatible with all CT24, CCM12 and MMCU4 machine control units
- Positive two-step pushbuttons
- Lightweight, ergonomic and robust
- System configuration via a secure wireless (RFID) Transkey™ for simple spares management

**FEATURES**

- Used for the control of cranes and machines with digital or two-step control of analog drive systems
- LEDs for status and feedback
- High safety level through redundant hardware and software architecture
- Approvals and frequencies for worldwide deployment
- IP65 housing made of impact-resistant polymer and rubber for tough indoor or outdoor environments
- Control up to five dual-step drives, plus on/off, Stop and (optional) electronic A+B select, with the 12-button unit
- Customer-specific layout and label options
- Tandem and multi-transmitter and/or receiver operation
- Operating range of 300 feet /100 m (Sub-GHz) line-of-sight

**MODELS**

- Four variations in 2 housing sizes
- 6, 8, 10 or 12 pushbutton configurations

**APPLICATIONS**

- Overhead Cranes
- Machine Control
- Safety Systems
- Ship Loaders Metal Fabrication
- Amusement Parks
- Lifting Equipment

**COMPLIANCE**

- EN 13849-1 Category 3 PL-d
- EN 60204-1
- EN 60204-32
- CE Compliant

JJEC

# TECHNICAL DATA AND SPECIFICATIONS

## ELECTRONIC DATA

| | |
|---|---|
| **Commands** | Up to 5 dual-step drives, horn, Stop and optional electronic A/B select switch |
| **Digital Circuitry Technology** | Dual-processor technology |
| **System addresses** | 24 bits = 16 million addresses |
| **Energy-Saving Mode** | Automatic shutdown (configurable 0-30 minutes) |
| **Battery** | Rechargeable, NiMH 3.6 V / 1500 mAh |
| **Battery Life** | >12 h at 100% continuous use |
| **Operating Temperature** | -20° to +70° C (-4° to 158° F) |

## RF

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|---|---|
| **Frequency Range** | 335 MHz<br>406–419 MHz<br>433–434 MHz<br>447–473 MHz<br>869 MHz<br>902–927 MHz<br>Other frequencies possible |
| **Operating Range** | 300 feet /100 m (Sub-GHz) line-of-sight |
| **Regulatory** | Licensed and unlicensed bands available |
| **Transmitter Output Power** | 1 – 100mW; frequency and location restrictions apply |
| **RF Security** | Black Channel |
| **Antenna** | Internal |

## MECHANICAL DATA

| | |
|---|---|
| **Dimensions and Weight** | 6 and 8 push buttons<br>approx. 290 g (0.64 lbs)<br>180 x 64 x 39 mm<br>(7.1" x 2.5" x 1.5")<br><br>10 and 12 push buttons<br>approx. 350 g (0.77 lbs)<br>235 x 64 x 39 mm<br>(9.2" x 2.5" x 1.5") |
| **Housing** | Material: High impact polymer and rubber Protection: IP65, suitable for outdoor use |
| **Vibration and Shock** | Vibration/impact and drop tested to 1m on concrete |

## OPERATION AND INDICATION

| | |
|---|---|
| **Control Elements** | 6, 8, 10 or 12 push buttons (2-step) |
| **Transkey™** | System configuration, address and RF channel setting |
| **Status** | Up to 5 multi-function LEDs for status and feedback |

## ACCESSORIES

| | |
|---|---|
| **Batteries** | 2 rechargeable batteries, NiMH 3.6 V / 1500 mAh |
| **Battery Charger** | Processor-controlled charger incl. adapter cradle, changing system on the primary side for international use 100-240 VAC, 50-60 Hz |
| **Labeling** | Self-adhesive marking labels |