

# 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





## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRONIC DATA

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

### RF

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

### MECHANICAL DATA

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

### OPERATION AND INDICATION

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

### ACCESSORIES

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