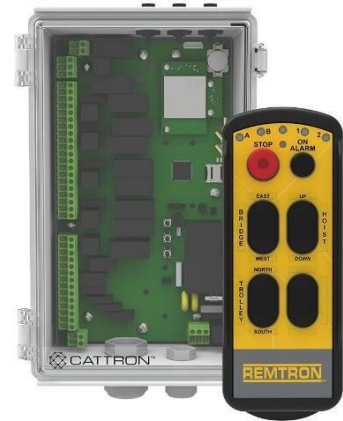# REMTRON 411
OPERATOR CONTROL UNIT

HIGHLIGHTS

- Remtron 411 has four single-step motions plus start and stop functions
- Available in standard configurations or engineered to meet specific requirements
- Uses CattronLink™ wireless programming tool for performance and feature updates
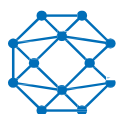
FEATURES

- IP65 enclosure offers protection against harsh environments
- Battery lasts beyond 65 hours with typical use; uses two AA standard alkaline batteries
- Enhanced status indicators include multiple LEDs and haptic feedback
- Wireless closed box Bluetooth® configuration of frequency and function for simple and rapid deployment of spares
- RFID security and reconfiguration enable user ID security and "as needed" reconfiguration of the controller to a specific machine
- PL-d safety level based on black channel telegram for both control and feedback
- Illuminated PL-d stop switch
- Customizable switch layout to meet specific requirements and private label programs
- Global licensed and unlicensed frequencies offer support in the 915MHz, 868MHz, 433MHz and 2.4GHz (unlicensed) and 450-470MHz (licensed) spectrums
- Essential data and diagnostics are logged and available over Bluetooth® or SD Card
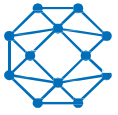- Hoist/crane select option – includes indications shown on four status LEDs

APPLICATIONS

- Overhead Crane and Hoist Systems
- Conveyor Systems
- On-Highway Equipment
- Off-Highway Equipment
- Manufacturing
- Transportation and Warehousing

COMPLIANCE

- CE / RED
- EN/ISO 13849
- Performance Level-d
- Electrical Safety IEC 61010

TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA

Commands	Up to 10 commands
Digital Circuitry	Dual microprocessor Cat. 3 PL-d architecture
System Address	24-Bit (65,535) unique addresses
Energy-Saving Mode	Configurable Automatic Shutdown
Battery	2 – AA Batteries; 65-hour battery life

RF

Frequency Range	License exempt: 915MHz, 433MHz, 868MHz, 2.4GHz 450-470MHz Licensed
Operating Range	Sub-GHz – 150m / 500ft typical 2.4GHz – 180m / 600ft typical
Antenna	Integrated internal antenna
Telegram	Dynamic high-efficiency telegram
Data Security	Enhanced bi-directional black channel communication
RFID	RFID reader for security and reconfiguration options

MECHANICAL DATA

Weight	0.25kg (9oz)
Dimensions L x W x H	165 x 71 x 25mm / 6.5x2.8x1in
Housing	High-impact fiber-reinforced nylon IP65 suitable for outdoor use
Operating Temperature	-20° to +60° C / -4° to +140°F
Vibration and Shock	Vibration / impact and drop tested to 1 meter on concrete

OPERATION AND INDICATION

Status	1 Tri-color status LED 4 Bi-color state LEDs Haptic feedback Illuminated stop switch
Control Elements	4 single step motions Start and stop Customizations available

ACCESSORIES

Labeling	Standard label sheets supplied
Holster	Leather holster
Rechargeable Battery	Standard desk mount or wall mount adapter with rechargeable batteries