Laird
Smart Technology. Delivered.

CattronControl™
LRC-M1

The LRC-M1, part of the CattronControl™ family, is a mid-sized operator control unit for cranes, lifting equipment and a diverse range of machines. The LRC-M employs advanced dual processor electronics and safety critical software, protected in an ergonomic and robust housing that is well-suited for use in aggressive industrial environments.

The LRC-M features an external RFID Transkey™ for simple unit configuration. This allows facilities to quickly deploy spare units by simply swapping the RFID Transkey between the operating unit and a spare, downtime and spares holding are minimized.

The LRC-M is available in a wide range of versions from pre-engineered standards to fully configurable with the following possibilities or any combination:

Main Actuators: Two stepped or step-less joysticks OR three full-size paddles OR six mini paddles.

PLUS up to ten additional actuators (pushbuttons, toggle, rotary switches, etc.)

OR without any main actuators, up to 22 Auxiliary switches plus Stop/Horn/On-Off

There are so many possibilities with its high reliability switches, levers, displays, RF options, feedback, multi-crane capabilities, tilt switches, RFID Transkey and global compliance, this tough mid-size and highly configurable controller is ideal for operation in almost any application, and operators maintain total freedom of movement for safe and efficient operations.

FEATURES

- For control of cranes and machines with digital or analog drive systems
- Graphic LCD and LEDs for status and feedback
- High safety-class through redundant hardware and software architecture
- Approvals and frequencies for worldwide deployment
- IP65 housing made of high impact-resistant polycarbonate resin for tough indoor or outdoor environments
- Customer-specific layout with a wide range of control elements
- Compatible with a number of machine control units featuring various interface options
- Optional force/angle safety feature
- System configuration via secure wireless Transkey (RFID) for simplification of spares holding
- Tandem and multi-transmitter and/or receiver operation
- CE compliant

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TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA

Commands	Up to 34 digital commands + STOP Up to 8 analog commands
Digital circuitry	Dual-processor technology
System addresses	24 bits = 16 million addresses
Energy-saving mode	Automatic shutdown (configurable 0-30 minutes)
Supply voltage	Rechargeable battery, NiMH 4.8V/1600 mAh
Autonomy	> 12 h at 100% uninterrupted use

MECHANICAL DATA

Weight	Approx. 1.6 kg (3.5 lbs)
Dimensions L x W x H	274 x 207 x 160 mm (10.8 x 8.2 x 6.3 inches)
Housing material	Lexan EXL® polycarbonate resin, standard color red/ gray
Housing protection rating	IP 65 - Suitable for outdoor use
Operating temperature	-20º to +60º C (-4º to +140º F)
Vibration and shock	Vibration/impact and drop tested to 1m on concrete

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OPERATION AND INDICATION

Layout	Standard 2 joysticks or fully customizable
Control elements (typical)	2 joysticks, stepped or stepless, start, horn, stop, keyswitch, push buttons, toggle switches, rotary switches, etc.
Transkey™	System configuration, address and RF channel setting
Buzzer	Low voltage indication and tilt
Graphics LCD	128 x 64 dots backlight white (graphic LCD optional)
LED	1 status LED 4 multi-function LEDs

STANDARDS

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

RF

Frequency range	335 MHz 406-419 MHz 433-434 MHz 447-473 MHz 869 MHz 902-927 MHz other frequencies on request
Transmission speed	4.8 to 20 kbit/s
Transmitter output power	10-500 mW with various modules (within permitted limits)
Modulation	FM
RF channel spacing	12.5 kHz; 25 kHz and others
Antenna	Internal

ACCESSORIES

Batteries	2 rechargeable batteries, NiMH, 4.8 V/1600 mAh
Battery charger	Processor-controlled charger with changing system on the primary side for international use 100-240 V AC, 50-60 Hz