Laird
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CattronControl™
LRC-S1

The LRC-S1, part of the CattronControl™ family, is a compact operator control unit for cranes, lifting equipment and a diverse range of machines. The LRC-S 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-S 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.

Three or four stepped or step-less functions can be controlled with its high reliability joysticks. The membrane is fully configurable for momentary or maintained switch functions, each switch has an associated switch state LED. Also one multi-mode A-B selector switch can be used for hoist or similar selection.

With its small size, this controller is ideal for operation in more confined environments and operators have even greater freedom of movement. Its lighter weight means operators will hardly notice the LRC-S when it is worn for extended periods of time.

This may be the ideal controller for those wishing to have a more compact controller format, but not wanting to go to a less flexible push-button controller format.

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
- Control of up to four motions with two multi-axis joystick controllers
- Customer-specific layout with a wide range of control elements (version dependent)
- 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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LRC-S1

TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA

Commands	Up to 29 digital commands + STOP Up to 4 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. 1.0 kg (2.2 lbs)
Dimensions L x W x H	229 x 117 x 152 mm (9 x 4.6 x 6 inches)
Housing material	Lexan EXL® polycarbonate resin, standard color red/ gray
Housing protection rating	IP65 - Suitable for outdoor use
Operating temperature	-20° to +60° C (-4° to +140° F)
Vibration and shock	Vibration/impact and drop tested to 1m on concrete

* Trademark of SABIC Innovative Plastics IP BV

OPERATION AND INDICATION

Layout	Standard 2 joystick, 4 steps, 3 or 4 motion
Control elements (typical)	2 joysticks, stop, start, horn, 5 push buttons; 4 with LED and configured as momentary or toggle, 1 with 2 LEDs and configurable as a select 0, A, B, A+B, etc.
Transkey™	System configuration, address and RF channel setting
Buzzer	Low voltage indication and tilt
Graphics LCD	128 x 32 dots, backlight white (graphic LCD optional)
LED	1 status LED 6 LEDs associated with push button switches

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	1-10 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

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