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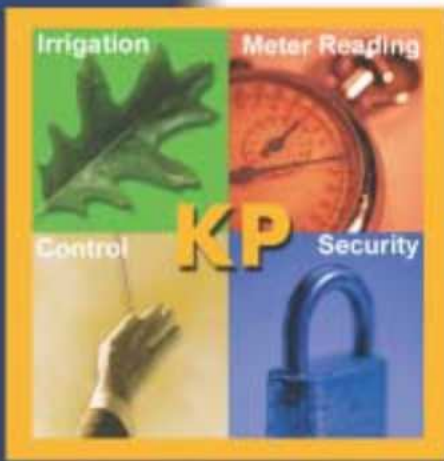
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RCI5000™

Radio Communication Interface



RCI5000 - Reliability Assured !

The RCI5000 provides a reliable and robust means of centralized control and monitoring for medium to large scale projects.

It receives, decodes and transfers messages to complementary software (SAMSON™) offering fully automatic functionality from a single location.

The internal construction of a synthesized radio and high speed processor offers the best long-range wireless solution for a control center. The RCI5000 acts as an interface between the wireless infrastructure and computers, yet enables manual control when the computer fails.

Important Features:

- Remote software programming
- Multi-protocol: receive and transmit different protocols on one unit
- Includes built-in integrated signal strength measurement
- Windows™ based General Utility Program GUP5000™
- Rapid interrogation of end-units
- Efficient use of protocols
- Fast baud rate between the RCI and PC
- PC alerts of RCI status
- Backup historical memory of previously received messages per channel
- Modular design enables expansion
- Supports A4 printer
- Supports USB, COM and parallel ports
- Multi-radio channels - up to four transceivers
- Illuminated control panel and large LCD display
- Built-in self calculation of interrogation time of remote end-units
- Synthesized internal radios allow easy and rapid frequency changes
- Can work with up to four different external radios or up to two internal radios



Specifications

Model	RC15000™
General	
AC Power Input	110 VAC/220 VAC, 60/50Hz (switch selectable)
AC Current Consumption	0.4 @ 220 VAC; 0.8 @ 110 VAC
Backup Battery	Internal 12 VDC, 7 AH Sealed Lead Acid (not supplied)
DC Current Consumption	250mA DC - operating in battery backup mode
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-25°C to 55°C (-13°F to 131°F)
RF Transceiver	
Internal	1-2 Internal Transceivers, 5/2 Watt, VHF/UHF, 5ppm, 136-174 / 405-512 MHz, (IATS100™ Based)
External	Up to 4 External Transceivers (EXR5000™ BSR100™ Based)
Digital Encoding / Decoding	
Protocols	LARSTM, LARSITM, LARS +TM, LARS ++TM, WAT-NET™, RCMS™
Modulation	FM, FSK, DFM
TX Format	Bursts of messages with repetition
Address Capacity	Protocol dependent: - LARS, LARS+: up to 32,000 - LARS I, LARS I+, LARS I++: up to 64,000 - WAT-NET™: up to 1 million - RCMS™: up to 2,048
Digital Display	20 x 4 characters "1" LCD, 4 Dual color LED
Communication Port	RS232, USB, Serial / Parallel printer
Parameter Selection	Fully programmable using: - PC dedicated software via RS232 / USB port (GUP) - Front panel 16 keys Keypad + LCD
Signal Strength Measurement	
Dynamic Range	0.1 - 2.0µV
Displayed Range	0.5 - 2.0µV
Physical Dimensions	
Size	19", 485 x 133 x 302 mm (2U)
Weight	8kg, 18 Lbs (without battery)

Office: P.O. Box 42, Tefen Industrial Zone, 24959, srael. Tel: 972-4-9873066, Fax: 972-4-9873692, info@kpsystems.com

Office: 109 Tudor Drive, North Wales, PA 19454 USA Tel: (888) 542-7460, Fax: (215) 542-7461, info@kpelectronics.com

132 Rev. New



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