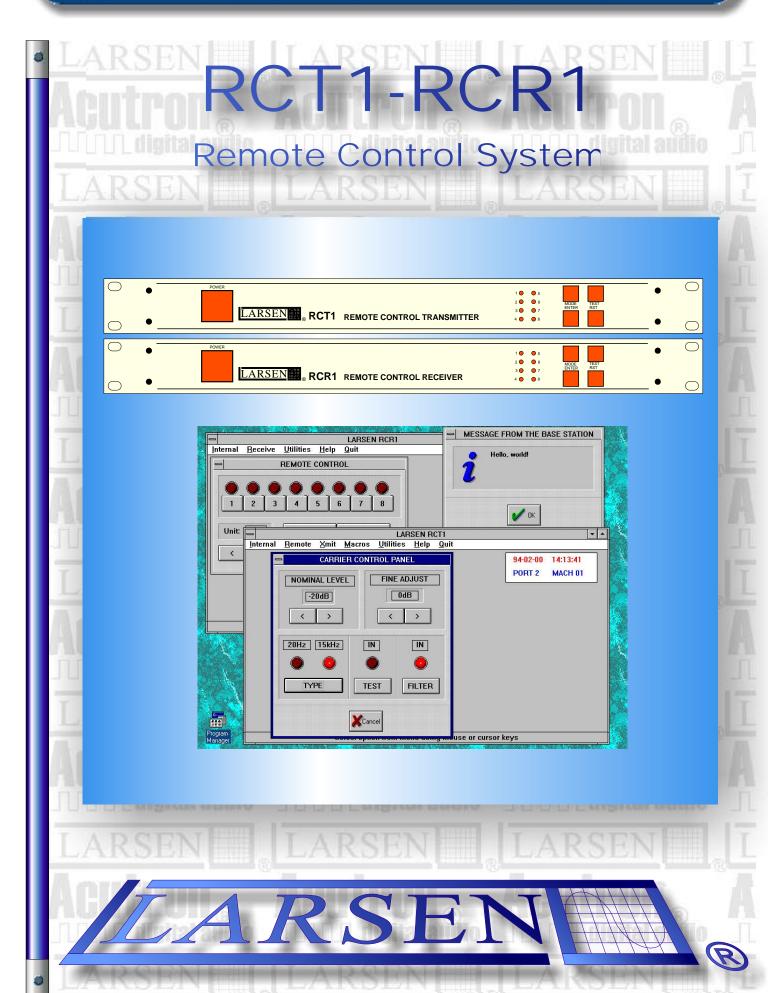
Actition Electroactistica Lda



DESCRIPTION

RCT1-RCR1 system is aimed for remote equipment control as well as for the transmission of digital data over Broadcast and Television networks using quasi-inaudible digitally-modulated carriers superimposed to the regular analog audio station signal.

APPLICATIONS

Broadcast network remote control

- Logging (SNOOPER logging system)
- Defective equipment replacement
 Commercial killing
- Remote RDS coder TA activation

□ Simultaneous distribution of 2 different mono programs through the same stereo satellite network line

TRANSMISSION

Transmission of the information packets is carried out by the RCT remote control transmitter. 3 different transmission processes are possible:

Directly triggered by the control computer, any number of messages is allowed.

□ Through 8 macros, previously defined in the control computer and stored inside the RCT1, and triggered by up to 8 external contact closures.

□ Acting on the panel push buttons on the unit to trigger the previouslystored macros.

□ The RCT1/RCR1 system will place a modulated carrier at the bottom/top of the spectrum just when a command is being dispatched! No filtering is performed so audio quality is not degraded.

□ If you work at the top of the spectrum, only a small "click" is heard when a command is sent. If the system uses the lower carrier, nothing will be heard, but commands will act slower.

FEATURES

General

□ Electronically balanced XLR I/O using instrumentation amplifiers and polyester coupling capacitors

- Audio performance exceeding the one present in 16 bit systems.
- Both the devices are presented in a slim line 1U 19" rack box.
- □ Fully EN55103 compliant according to 89/336/EMC
- Different power supplies for audio and digital circuits
- □ Fast 32-bit control software, runs in Windows™ 98/NT4/2000/XP
- Automatic power loss configuration recovery
 Password protection on critical programming items
- Keyboard inhibit feature for distant operation
- Automated time-schedule operation (available separately)

Transmitter

□ Carrier level and frequency is software-programmable, with built-in special test mode.

Built-in receiver disable function.

- Provision to transmit up to 60 uniquely-named files
- □ Unformatted packets for external equipment command (e.g. RDS coders) may be transmitted

□ Built-in automation system Suspend and Resume orders for the former LARSEN WinAir/TM1+ system

□ Programming through the ES-BUS port and the ACUTRON SA2/C PCI board (not included)

Up to 32 RCT1 units may be controlled by one instance of the control software.

Distance between the control computer and the RCT1 may be up to 1200m.

Receiver

□ 8 remote-controlled DPDT contacts, software-programmable as steady make/break or momentary

ABC-Abrunheira Business Center Edificios 10-11 R. das Maçarocas Abrunheira 2710-056 Sintra 'Tel +351 219152040 Fax +351219154079 web: www.acutron.net mail: info@autron.net Integrated EIA232D port to send out received data (messages or files).
 Remote-controllable static stereo/mono L+R/mono L/mono R switching built-in.

Carrier threshold and frequency is software-programmable.

□ Programming either through the integrated EIA232D port or through the air carrier.

□ Extensible to up to 24 contacts, through its extension port and up to 3 RCE18 contact extenders.

Communications protocol:

□ 20Hz or 14.7kHz differential-phase PAM modulated carrier with zerocrossing synchronous modulation

□ Carrier is generated digitally with a 16X oversampling ratio (carrier THD+N<0.2%).

- Nominal carrier level software-adjustable between -10 and -20dBu.
- Error detection statistical analysis algorithm built-in

Data rate is either 10 or 4800 baud, depending on carrier frequency
 Receivers addressable individually or in groups (128 different units or

groups may be addressed).

□ Secure: Transmitted data may not be decoded by another station receiver.

20Hz-20kHz +0.5dB

SPECIFICATIONS

Frequency response Noise Crosstalk Harmonic distortion Intermodulation Input/output phase deviation Input impedance Output impedance Output impedance Clipping point Common mode rejection Carrier: Amplitude

Filter rejection Frequency Harmonic distortion RCR1 contacts Physical Weight Power supply Operating temperature >80dB, 1kHz, any input to any output <0.005% 20Hz-20kHz <0.002% during transmission: <30° 50k Ω balanced 600 Ω balanced +10dBu >45dB 20Hz-20kHz adjustable from -20dBu to -10dBu in 1 dB steps >35dB 20.41Hz/14706Hz <0.2%

-90dBu, 22Hz-22kHz unweighted

8XDPDT 50V 2A max 1U 19" rack height, 252 mm depth 3Kg 120/240VAC, 50-60Hz, @ 6VA 0-40°C

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