

# Remtron™ Receivers



## A FAMILY OF RADIO REMOTE CONTROL RECEIVERS FOR INDUSTRIAL CRANE AND MACHINE CONTROL APPLICATIONS

### HIGHLIGHTS

The 21R and 22R receivers form a portfolio of machine control units (MCU) within the Remtron® line of products.

The 22R series are primarily aimed at machine control applications while the 21R series are primarily aimed at the crane control market.

There are three basic versions available, the 22R08A, the 21R14A and the 21R22, these may be used individually or combined for more complex applications.

The 22R08A has 8 relays in total that may be used for any function, the 21R14A has 16 relays, (1 Safety, one Alarm and 14 function), the 21R22 has 24 relays, (2 safety, 1 alarm and 21 function).

The 21R30 combines the 21R22 with an additional 8 relay board and the 21R44 combines two 21R22 receivers; this enables an efficient and customizable portfolio to cover the simplest to the most complex of crane and machine control applications.

These receivers can be configured with a RAC16 programmer, setting the system address and the frequency, or uploading a new map that has been pre-installed in a RAC16 at the factory by Cattron's application engineers.

These MCUs are also available in pre-engineered standards or fully customized to suit almost any crane or machine requiring a relay and analog control interface. These receivers can be used with any of the diverse range of operator control units from the Remtron line.

### FEATURES

- Options from 8 to 43 Function relays + Analog, Alarm and Stop. Compatible with contactor or VFD systems.
- North American Electrical Safety Approvals
- North American RF approvals FCC and IC
- Compatible with all Remtron OCUs
- Rugged and compact NEMA 4 protection class industrial enclosure
- System configuration via RAC16 programmer for simplification of spares holding.
- Features easy screwdriver terminations for ease of installation and maintenance
- Industrial wide-range AC power supply and several DC power supply variants available
- Receiver remote antenna kit provided
- Multi-LED indication for status and diagnostics
- First Come First Served (FCFS) and Pitch & Catch allow one or more MCUs to be controlled by up to six OCUs





## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRONIC DATA

System addresses	16 bit = 65,535 addresses
Data Security	16 bit CRC
Supply voltage R08	12V dc Standard Optional 24Vac or dc, 115V or 230Vac
Supply voltage R14, 22, 30, 44	115 or 230Vac Optional, 24Vac or dc, 12Vdc
Power consumption	< 1A
Response Time	60mS
Safety Shutdown	> 1 second signal loss (excludes R08 momentary mode)

### OPERATION AND INDICATION

Model	Maximum Functions
R08	8 (4 C/O, 4 N/O)
R14	14 (+1 Alarm + 1 Stop)
R22	21 (+1 Alarm + 2 Stop) + Analog option
R30	29 (+1 Alarm + 2 Stop) + Analog option
R44	43 (+1 Alarm + 2 Stop) + Analog option

### ACCESSORIES

Configuration	RAC 16A
Antenna	Optional external antenna and line kit

### MECHANICAL DATA

Dimensions/weight	
R08A	203 x 152 x 101 mm 3.69 kg (8 x 6 x 4 inches) (8.12 lbs)
R14A	304 x 254 x 127 mm 4.54 kg (12 x 10 x 5 inches) (10 lbs)
R22	355 x 305 x 152 mm 5.44 kg (14 x 12 x 6 inches) (12 lbs)
R30	355 x 305 x 152 mm 5.44 kg (14 x 12 x 6 inches) (12 lbs)
R44	355 x 305 x 152 mm 19.5 kg (30 x 20 x 6 inches) (43 lbs)
Housing material	Steel, Options of Stainless steel and Fiberglass
Housing protection rating	NEMA 4
Operating temperature	-21 to +71 C (-20 to +160 F)
Humidity range	0-97% non-condensing

### RADIO FREQUENCY

Frequency range	902-927 MHz 85 Channels
Regulatory	License exempt
Operating range RF	Typ. 300ft obstructed view Up to 1000ft line of sight
channel spacing	300kHz
Antenna	Case mounted or remote

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