



# 21R44 Receiver

- 44 Ten-Amp Relays
- 8 Analog Outputs
- 115/230 VAC or 12/24 VDC Power
- Maintained Link

## RF Characteristics

RF unit.....	Microprocessor controlled PLL synthesizer with up to 85 different channels
Frequency Range.....	902-928 Megahertz (MHz)
Channel Spacing.....	300 Kilohertz(KHz)
Modulation.....	Packet Mode, Digital Frequency, Modulation(FM) based on Manchester code
Receiver Type.....	Dual Conversion FM
FCC ID #.....	EGT810RX
Industry Canada Certification #.....	249 710 2624A
Sensitivity.....	1 µV usable
IF Bandwidth.....	180 KHz
Response Time.....	60 Milliseconds
Update Rate.....	16 packets per second command, 4 packets per second idle
Range.....	300- ft. obstructed view, 1000-ft. line of sight (unobstructed)
RF approvals.....	License-free in North America
Antenna.....	3" tuned element

## Safety and Operational Characteristics

Relays.....	43 control/1 alarm/2 safety relays
Output Contacts.....	5 Amps @ 230 VAC
Addressing Safety.....	16-bit, 65,535 unique addresses with 85 channels providing over 5 million variations
Safety Decoding.....	16-bit Cyclic Redundancy Codes (CRC) check
Safety Stop.....	Over-riding Stop command with safety relay
Start-Up Safety.....	Start inhibited if controls pressed before start
Status Indications.....	Full function diagnostics LED indicators for Power, Signal and Output
Power Requirements.....	Standard 115 or 230 VAC, 1-phase, 50 to 60 Hz, 24 or 12 VDC, 24 VAC
Maximum Current Drain.....	0.12 Amps @ 115 VAC
Maintained Link.....	Receive at least one valid transmission each second to continue operation
Loss of Maintained Link.....	Safety shutdown, positive restart required

## Environmental Characteristics

Temperature Range.....	-20° to +160° F (-29° to +71° C)
Humidity Range.....	0-97% maximum non-condensing
UL Rating.....	UL 508
Environmental Rating.....	NEMA 4

## Physical Characteristics

Connector.....	Terminal Strip Connection
Antenna.....	Case Mounted or remote
Housing Material.....	Standard industrial enclosure(metal, fiberglass, or stainless steel)
Weight.....	12 lbs. (5.44 kg)
Dimensions.....	20" x 30" x 6" (35.56 cm x 30.49 cm x 15.24 cm) min. (sizes vary upon application)