REMTRON Technical Specifications

21R22 Receiver

- 22 Ten-Amp Relays
- 8 Analog Outputs
- 120 VAC Power Supply
- 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…….……..	21 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……..	120 VAC power supply
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……	14” x 12” x 6” (35.56 cm x 30.49 cm x 15.24 cm)

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