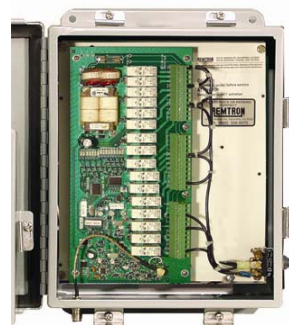


### 21R14A Receiver

- 14 Control/1 Alarm/1 Safety relays
- 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 $\mu$ V 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.....                  | 14 control/1 alarm/1 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                                |
| Transfer Switch.....  | Case Mounted 3-position, 3-pole power transfer switch |
| Housing Material..... | Metal (optional fiberglass and stainless steel)       |
| Weight.....           | 10 lbs. (4.54 kg)                                     |
| Dimensions.....       | 12" x 10" x 5" (30.48 cm x 25.4 cm x 12.7 cm)         |