



SZ2144

Large Refrigeration Monitor



Description

The SZ2144 is a microprocessor-based refrigeration monitoring and alarm interface designed to monitor up to six temperature sensor inputs and up to five analog inputs.

The SZ2144 features:

- Stand-alone or network operation
- Independently programmable high and low limits for each input
- Independently programmable manual or automatic alarm reset
- Change of state factor with programmable hysteresis
- Status LEDs
- Relay output to activate additional auxiliary communication devices or external alarm circuit
- Six RTD temperature inputs
- Five analog inputs suitable for a broad variety of transducers
- Options for thermistor temperature and 0 to 5V pressure inputs
- Monitor liquid line, suction and discharge temperatures
- Monitor suction line pressure

Specifications

General

Accuracy: +/- 0.5%
Programming: EIA RS485 interface
Communications: RS485, half duplex
Memory backup: Non-volatile EEPROM, no battery required

Environmental

Operating temperature: 32 to 131°F (0 to 55°C)
Operating humidity: 0 to 100% RH, non-condensing
Storage temperature: 14 to 140°F (-10 to 60°C)

Electrical

Supply voltage: 24 VAC +/- 20%
Inputs: Six platinum RTDs, range: (3) @ -40 to 160°F or -20 to 120°F (if using thermistor) and (3) @ 20 to 220°F
two 4-20 mA plus three 0-5V analog and eight digital (dry contact)
Outputs: One digital (SPST dry contact, 24 VAC @ 1 A) configurable
Analog input impedance: 250 Ω (AI1-2); 10k Ω (AI3-5)
Power Consumption: 15 VA max.

Specifications subject to change without notice

Ordering Information

| Part # | Description |
|---------------------------|--|
| SZ2144 | Large Refrigeration Monitor |
| SZ2144 Accessories | |
| TS Series | Temperature sensors |
| TS/TX Series | Temperature sensors and transmitters |
| TH Series | Relative humidity transmitters |
| PR Series | Encased relays |
| PS Series | Current switches |
| PT Series | Control transformers |
| PG Series | Temperature/Pressure transducers |
| QD1010 | RS232 to RS485 communications converter (required for programming) |
| REVPRO | Revelation Professional Software (required for programming) |

Dimensions

Note: inches [mm]

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