Submittal Data

TCS Basys Controls®

SZ2141

Refrigeration Controller

SUPERTROL™ Communicating Controls

Description

The SZ2141 is a microprocessor-based refrigeration controller and alarm interface is designed to control three coolers or freezers and monitor up to six additional.

The SZ2141 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
- Programmable defrost cycles with time or temp termination
- Temperature or pressure monitoring inputs
- Monitor compressor and door status

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: -40 to 160°F five 4-20 mA analog and six digital (dry contact)
Outputs: Nine digital (SPST dry contact, 24 VAC @ 1 A) configurable
Analog input impedance: 250 Ω
Power Consumption: 15 VA max.

Specifications subject to change without notice

Ordering Information

Part #	Description
SZ2141	Refrigeration Controller
	SZ2141 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
QD1010	RS232 to RS485 communications converter (required for programming)
REVPRO	Revelation Professional Software (required for programming)

Dimensions

Note: inches [mm]

SZ2141