

### PRODUCT OVERVIEW



### Features:

- 3.5 Inch IPS capacitive touch screen
- Control from a standard web browser - no special software required
- 1-Wire Bus for up to total 10 sensors (temperature, humidity, etc.)
- Compatible with up to 1 RTD and up to 1 Thermocouple
- Send smart email alerts based on user-defined conditions (supports encrypted email servers, such as Gmail)
- 9-Volt battery power backup: Power Save mode is enabled on power loss, which sends an alarm email.
- Connection for 1 door sensor
- Customizable web-based Control Page
- No software required
- Configurable logging
- HTTPS/TLS encrypted
- Static or DHCP IP address configuration
- Rugged wall-mountable enclosure
- Real-Time Clock with NTP server synchronization
- Automatic daylight savings and leap year adjustment

FridgeAlert™ is an industrial-grade temperature monitoring system that features a convenient touch screen. Connection types include a Type-K Thermocouple, a 1-Wire Bus, and an RTD (2-4 wire). The FridgeAlert™ can be connected through Wi-Fi, Cellular, and Ethernet connections, making installation simple. The FridgeAlert™ is easy to use, making it the perfect solution for restaurants, c-stores, schools, arenas, hotels, grocery stores, and much more.

The FridgeAlert™ is cloud-flexible, meaning a cloud connection isn't required, but is available as a convenient remote access method.

FRIDGE ALERT™ Refrigeration Monitoring & Alert System				
General Settings	FREEZERS / FRIDGES			
Freezers/Fridges	FREEZERS / FRIDGES LIST			
Logging				
Monitor				
Name	Alert Max Temp	Alert Min Temp	Alert Delay	Edit
Fridge 1	40.0 °F	32.0 °F	1500 Seconds	Edit X
Fridge 2	40.0 °F	32.0 °F	1500 Seconds	Edit X
Fridge 3	40.0 °F	32.0 °F	1500 Seconds	Edit X
Fridge 4	40.0 °F	32.0 °F	1500 Seconds	Edit X

Freezers/Fridges

FRIDGE ALERT™ Refrigeration Monitoring & Alert System								
General Settings	LOGGING							
Freezers/Fridges	GENERAL LOGGING SETTINGS							
Logging								
Monitor								
Enable Logging: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Start Time: 00 : 00								
Interval: 1 <input checked="" type="radio"/> Mins <input type="radio"/> Hours <input type="radio"/> Days <input type="radio"/> Event Only								
Power Up State: <input checked="" type="radio"/> Running <input type="radio"/> Stopped								
Next Log Time: 04/11/2023 08:36:00								
<a href="#">View Log</a>								
LOG I/O								
DIGITAL INPUTS								
Name	Log	Counter/Freq	On Time	Trigger Log Event				
Fridge 1 Door	<input type="checkbox"/>			<input type="checkbox"/>				
1-WIRE SENSORS								
Name	Log	Trigger Log Event	Delta					

Logging Settings

### APPLICATIONS & SPECS

#### Fridge/Freezer Temperature Monitoring



Fridge/Freezer Monitoring

Freezer 1	Freezer 2
1.31 °F	27.71 °F
Fridge 1	Fridge 2
35.74 °F	44.74 °F
05/10/22 02:15:21	Door: Closed

Touch Screen

#### Models

- FA100
- FA100C

#### Power Requirements

- Voltage: 9-28 VDC
- Max Current:
  - 12V: 200mA
  - 24V: 100mA

#### WiFi

- Network Standards: IEEE 802.11 b/g/n
- Frequency Band: 2.412 - 2.462 GHz
- Wi-Fi Security Standards: WPA2, WPA3
- Network Settings: DHCP or Static

#### Compatible Sensors

- Max Connected Temperature Sensors: 10
  - Type-K Thermocouple (Max 1)
  - 1-Wire Sensors (Max 10)
  - RTD (2/3/4 Wire, PT100/PT1000, Max 1) \*
- Door Sensor: Switch closure input

\*(Refer to your sensor manual for individual specs)

#### I-Wire Bus

- Maximum Number of Sensors: 10
- Type: Dallas Semiconductor DS18B20
- Temperature Range: -67°F to 257°F (-55°C to +125°C)
- Accuracy: ±0.5°C (from -10°C to +85°C)
- Sensor Functions: Monitor Temperature, Log Temperature, Email Alerts, SNMP Traps
- Humidity Type: Xytronix Model X-DTHS-P sensor
- Humidity Range: 0-100% RH
- Humidity Accuracy: ±2%
- Max Cable Length: 600 feet (180m) maximum combined cable length

#### Thermocouple

- Number of channels: 1 Channel
- Thermocouple: Type-K
- Linear Range: -200 °C to 1250 °C
- Operating Ambient: -40 °C to 85 °C (internal cold junction compensation)
- Resolution: 0.027 °C
- Drift: 4ppm/ °C typical, 15ppm/ °C max
- Type: Inputs are not isolated, only use ungrounded thermocouples
- Input Current: Differential, ±165nA max
- Error Detection: Detects sensor breakage or disconnection of lead wire

#### Touch Screen

- 3.5" IPS capacitive touch screen
- Size: 320X240

#### Real-Time Clock

- Manual or NTP (Network Time Protocol) setup
- NTP Sync Period: Once, Daily, Weekly, On Power-up
- Auto Daylight Savings Adjustment

#### 9-Volt Battery Power Backup

- Backup Functions: Enter Power Save mode, Retain Real-Time Clock, External Variables, Logs, and Alerts
- Backup Duration: 1 week\*

\*Time depends on settings configuration & model

#### Network

- Type: 10/100 Base-T Ethernet Port
- Setup: Static or DHCP IP address configuration
- Wireless: WiFi and/or Cellular Modem (FA100C model only)

#### Connectors

- Power/Input/Relays: 11-Position, 3.81mm
- Network: 8-pin RJ-45
- Type: Miniature size, Omega PCC-SMP Series, Type-K
- Mating Connector: Miniature size, SMP
- DC Jack: 5.5mm barrel x 2.5mm center pin (positive)

#### LED Indicators

- Network: 8-pin RJ-45
- Number of LEDs: 2
  - Network linked
  - Network activity

#### Logging

- Log File Size: 3,072-Kbyte (up to 50,688 logs)
- Storage: Nonvolatile Flash
- Buffer Architecture: Circular Buffer

Log data can be periodically read and stored on a computer

#### Physical

- Operating Temperature: -40°F to 150°F (-40°C to 65.5°C)
- Size:
  - 4.06in (103.124mm) wide
  - 6.25in (158.75mm) tall
  - 1.375in (34.925mm) deep
- Weight: 11.1 oz (314.67 grams)
- Enclosure Material: Lexan 940 Polycarbonate Plastic
- Enclosure Flame Rating: UL94 V0

#### Protocols

- HTTP(S), JSON, XML, Modbus, JSON, SNMP, Remote Services

#### Password Settings

- Password protection on setup page: Yes
- Password protection on control page: Optional
- Password Encoding: Base 64
- Max Password Length: 18 Characters

#### Compliance:

- IEC CISPR 22, CISPR 24
- EU EN55024, EN55022

