

USER'S MANUAL

Flash-ALERT

Overview:

The **Flash-ALERT** is an accessory that replaces the standard SD memory card with a card that is not only memory but includes a Wi-Fi radio and microcontroller (small computer).

No need for drivers, software, cables or cloud service that usually requires a subscription fee.

Just slide the Flash-ALERT SD Card into the Thermco ACCRT8017 data logger to wirelessly monitor:

- Temperature and Temperature Excursions
- Sensor Failure
- Loss Of Power (on battery backup)

If any of these conditions occur the Flash-ALERT sends ALERT Email and/or SMS text messages up to three contacts through the Wi-Fi connection.

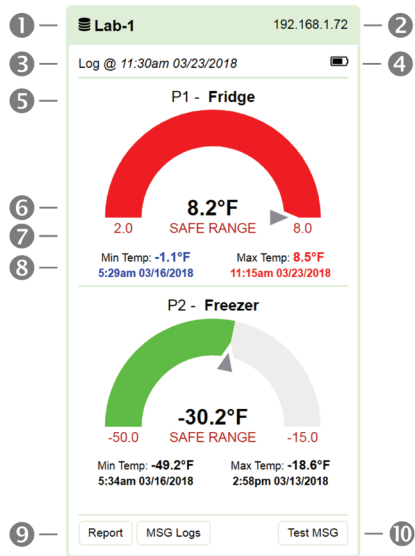
Alert messages are also sent when conditions return to normal.

Flash-ALERT can also send 2 Daily STATUS Reports (am & pm) via Email & SMS that provide the Current-Min-Max Temperatures/Times plus Battery state: USB, 100%, 75%, 50%, 25%.

Flash-ALERT Real-Time Web Dashboard that can be viewed on the local network with any browser.

Dashboard page:

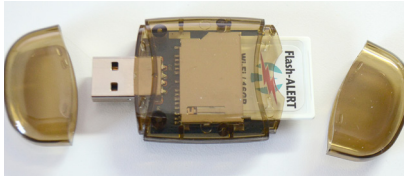
1. Logger Name (user customize)
2. Dashboard IP Address
3. Last Log Time/Date Stamp
4. Battery Level Icon Gauge
5. Animated Gauge
Flashes if Excursion
Probe Names (user customize)
6. Current Temperature
7. HI and LO Alarm Set Points
8. Highest and Lowest Recorded Temperatures and Time Stamp with Color Coded Text:
black= temp within range
blue= temp below range
red = temp above range
9. Page Navigation
10. Send Verification Test Email / SMS



Specifications:

SD Card Capacity: 16GB SDHC Memory
Browser for Dashboard: Internet Explorer, Chrome, Safari, etc
Flash-ALERT.exe (config): Windows 7/8/8.1/10
Range: 30 feet from router or access point (for reliable connection)
Wireless LAN Standard: IEEE802.11 b/g/n (2.4GHz SISO,20MHz)
Wireless LAN Security: WEP, TKIP, AES (WPA, WPA2)
Operating Temperature: -25°C to +85°C (Recommended)

Configuration Settings:



It is recommended that you collect all the values needed before running the Configuration Settings program.

Insert SD card into flash card reader provided with Data Logger or SD card slot on PC.

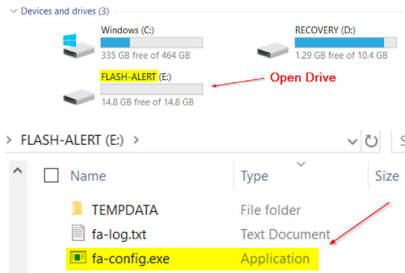
Plug SD card reader into a Windows 7/8/10 PC.

Open Computer (win 7) or This PC (win 10).

Double click drive labeled "FLASH-ALERT".

Double click fa-config.exe (you may not see ".exe").

The form shown below will now open.



Flash-ALERT Configuration Settings

Logger / Probe Names

Name:

P1 Name:

P2 Name:

Wi-Fi Settings

Network Name:

Password:

Email Acct Info

Email:

Password:

SMTP:

Port Number:

Email / SMS Contact List

Email:

SMS:

Email:

SMS:

Email:

SMS:

Daily Status Messages

Time: AM - Time: PM

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NOTE:

Flash-ALERT is a low power device that needs to be located within 30 feet of a Wi-Fi router or access point with minimal obstructions.

If Flash-ALERT is not able to be placed within 30 feet of an access point it is recommended to:

1. Place router closer to Flash-ALERT location.
2. Set Up a wireless range extender in the same area as Flash-ALERT.

Logger / Probe Names

Name:

P1 Name:

P2 Name:

Name:

The name is used to access the dashboard and is used for Email & SMS messages sent. *Do not use the same name if using additional data loggers on the same network.* It is recommended that you create a short user-friendly name of no more than 20 characters. Characters that can be used are "A" to "Z", "a" to "z", "0" to "9", and the hyphen ("-") and no spaces.

P1 & P2 Names:

Enter a custom name or choose one of the predefined values from the drop down list. Custom name no more than 20 characters.

Wi-Fi Settings

Network Name:

Password:

Network Name:

Name of the Wi-Fi network you want to connect to.

Password:

Password for the Wi-Fi network

Email Acct Info

Email:

Password:

SMTP:

AOL
AT&T dsl
AT&T
COX Mail

Email:

Email address of account that is sending the messages.

Password:

Email account password.

SMTP:

Select a Email service provider from the drop-down list for the outgoing mail server address. Both the SMTP and Port field will be populated automatically.

If your provider is not listed you can Google to find your outgoing server address and port. Example: to find the SMTP for "Outlook.com" you would search...

"Outlook SMTP outgoing server"

If your searching comes up empty just ask your e-mail administrator for the information. Then manually enter the server and port.

Port Number:

Enter the port number if you are manually entering your SMTP information.

Email Acct Info

Email:

Password:

SMTP:

Port Number:

Email / SMS Contact List

Email:

SMS:

Email:

SMS:

Email:

SMS:

@vtext.com
@txt.att.net
@tmmail.net
@pm.sprint.com
@cingularme.com
@cspire1.com
@email.uscc.net
@message.ting.com
@messaging.sprintpcs.com
@mmst5.tracfone.com

Email:

The email address of recipient(s) you want to send STATUS & ALERTS to.

SMS:

Enter the cell phone number of recipient(s) you want to send text messages to.

Plus choose one the SMS gateways from the drop down list or enter a custom domain for the cell phone carrier. Again if you are not sure of the gateway name of the cell phone carrier you can Goggle "SMS Verizon" if the carrier is Verizon.

Daily Status Messages

Time: - Time:

1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00

Save

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Time:

Select the time of day you want STATUS messages sent or select off.

Flash-ALERT Configuration Settings

Logger / Probe Names
Name:
P1 Name:
P2 Name:

Wi-Fi Settings
Network Name:
Password:

Email / SMS Contact List
Email:
SMS:

contact 3... email

Flash-ALERT Settings Saved
A) Close this program
B) Remove Flash-ALERT card
C) Wait ~15 sec then reinsert card

OK

Email Acct Info
Email:
Password:
SMTP:
Port Number:

Messages
Time: - Time:

Save

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Press **Save Button** to update the Flash-ALERT card.

A pop-up will be displayed...

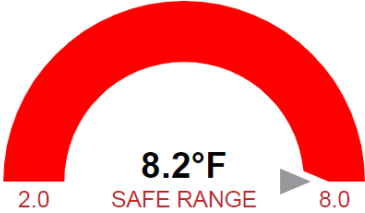
- Close Flash-ALERT configuration program.
- Remove card from PC.
- Wait about 15 seconds, then reinstall to PC
- Wait ~15 seconds and remove for 2nd time
- Wait about 15 seconds, then reinstall to PC
- Open a WEB BROWSER (IE, Chrome)
- Type Logger Name in address bar with a **forward slash "/"** after the name then enter

continued on back

Lab-1 192.168.1.72

Log @ 11:30am 03/23/2018 

P1 - Fridge

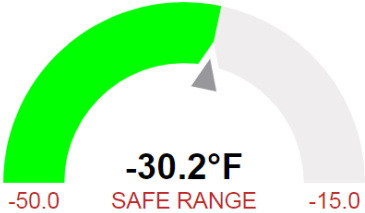


8.2°F

2.0 SAFE RANGE 8.0

Min Temp: **-1.1°F** Max Temp: **8.5°F**
 5:29am 03/16/2018 11:15am 03/23/2018

P2 - Freezer



-30.2°F

-50.0 SAFE RANGE -15.0

Min Temp: **-49.2°F** Max Temp: **-18.6°F**
 5:34am 03/16/2018 2:58pm 03/13/2018

Report MSG Logs Test MSG

When the Dashboard opens in the web browser take note of the **ip address** in the upper right corner of panel. This ip number is to be used in non-windows devices. (i.e. Mac OS X , iOS, Android) web browsers to launch the Dashboard. Enter the ip in the web browse address bar ex: 192.168.1.72 and enter.

Send an email / sms test message by clicking the "TestMSG" button. Wait for the "Test message(s) sent" pop-up then press OK.

From lab-1

Test message(s) sent

OK

All recipients listed during the configuration setup will received an email and or a sms message. The message contains the Dashboard ip that should be entered into their mobile web browser and book marked for easy access later.

Flash-ALERT is now ready to be placed in the ACCRT8017 data logger. Follow the ACCRT8017 manual / video to set time, date, min / max alarms and logging interval period. We recommend a interval of 15 minutes.

Report page:

- Current report with real time updates
- Print report button

Lab-1 192.168.1.72

Current Report 201803170838.CSV

```

UNIT(F),DATE,TIME,ALARM,SET,UNIT(F)
P1 MINIMUM,-1.1,2018/03/16,05:29:02, P1 LOW ALARM,2.0
P1 MAXIMUM,8.5,2018/03/23,11:15:42, P1 HIGH ALARM,8.0
P2 MINIMUM,-49.2,2018/03/16,05:34:04, P2 LOW ALARM,-50.0
P2 MAXIMUM,-18.6,2018/03/13,14:58:38, P2 HIGH ALARM,-15.0

DATE,TIME,P1(F),P2(F),P1 ALARM,P2 ALARM,BATTERY LEVEL(%)
2018/03/17 08:38:00,08.8,6.7,---,USB
2018/03/17 08:38:00,08.8,6.7,---,USB
2018/03/17 08:38:00,08.8,6.7,---,USB
2018/03/17 10:22:00,08.8,6.7,---,100
2018/03/23 11:30:00,8.2,-30.2,---,75
  
```

Dashboard MSG Logs Print

MSG Logs page:

- Logged Status & Alert messages
- Battery status
- Email and SMS Sent or Send Error
- Report file name
- Print log button

Lab-1 192.168.1.72

Status / Alert Log

```

ALERT Lab-1
Log: 11:30am 03/23/2018
Battery: 50% remaining!
VMS: Disabled
deactivated to conserve power
Email Sent: SMS Sent
file: 201803170838.CSV
  
```

Dashboard Report Print