



# Greenhouse Monitoring: How To Beat The Odds

Jack Manix, Walker Farm

# Walker Farm – Dummerston, Vermont

## 25 Greenhouses, 35 Certified Organic Acres Crops









# Living On The Edge

- Supply Chain
- Energy
- Inflation
- Labor
- **Weather**

# Rolling the Dice?





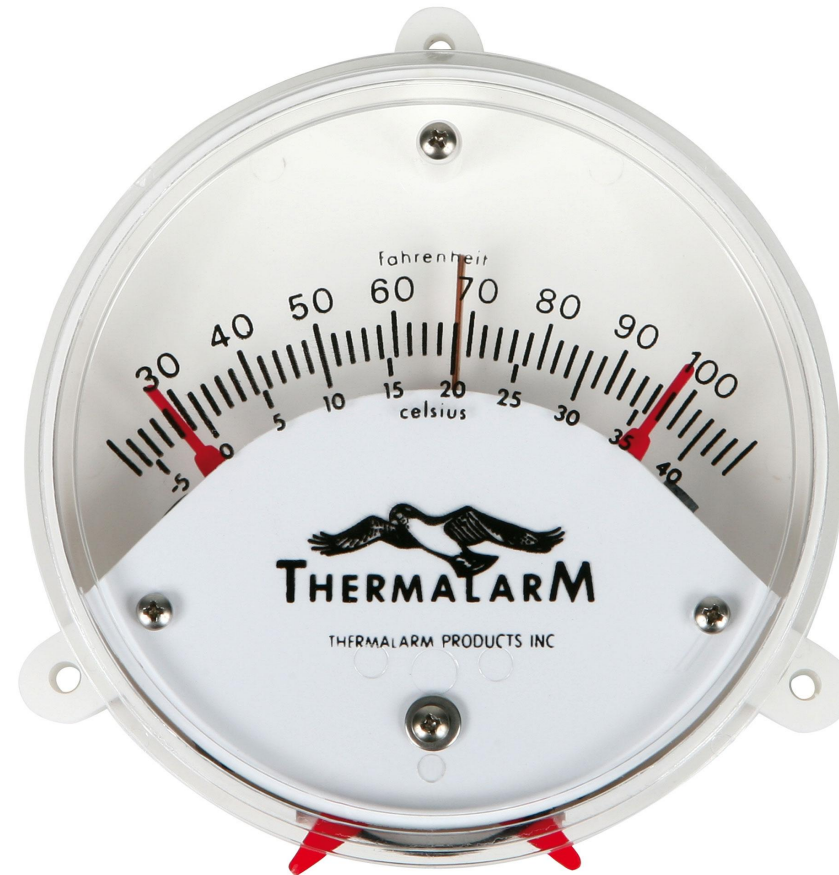
You Didn't Have An Alarm System?







[www.qcsupply.com](http://www.qcsupply.com)  
\$51.95



# Protect-It





# Door Alarm



Yearly Subscription – 25 monitors \$120

**iMONNIT**  
**PREMIERE**

## Ethernet Gateway - \$242



<https://www.monnit.com/>  
\$83





## Temperature & Humidity Sensor - \$132



Ebay – Sony  
\$2.95  
(check date)



## Solar Radiation Shield from Ambient Weather - \$14.50





## Industrial Wireless Sensor Long Range - \$253



10' Lead





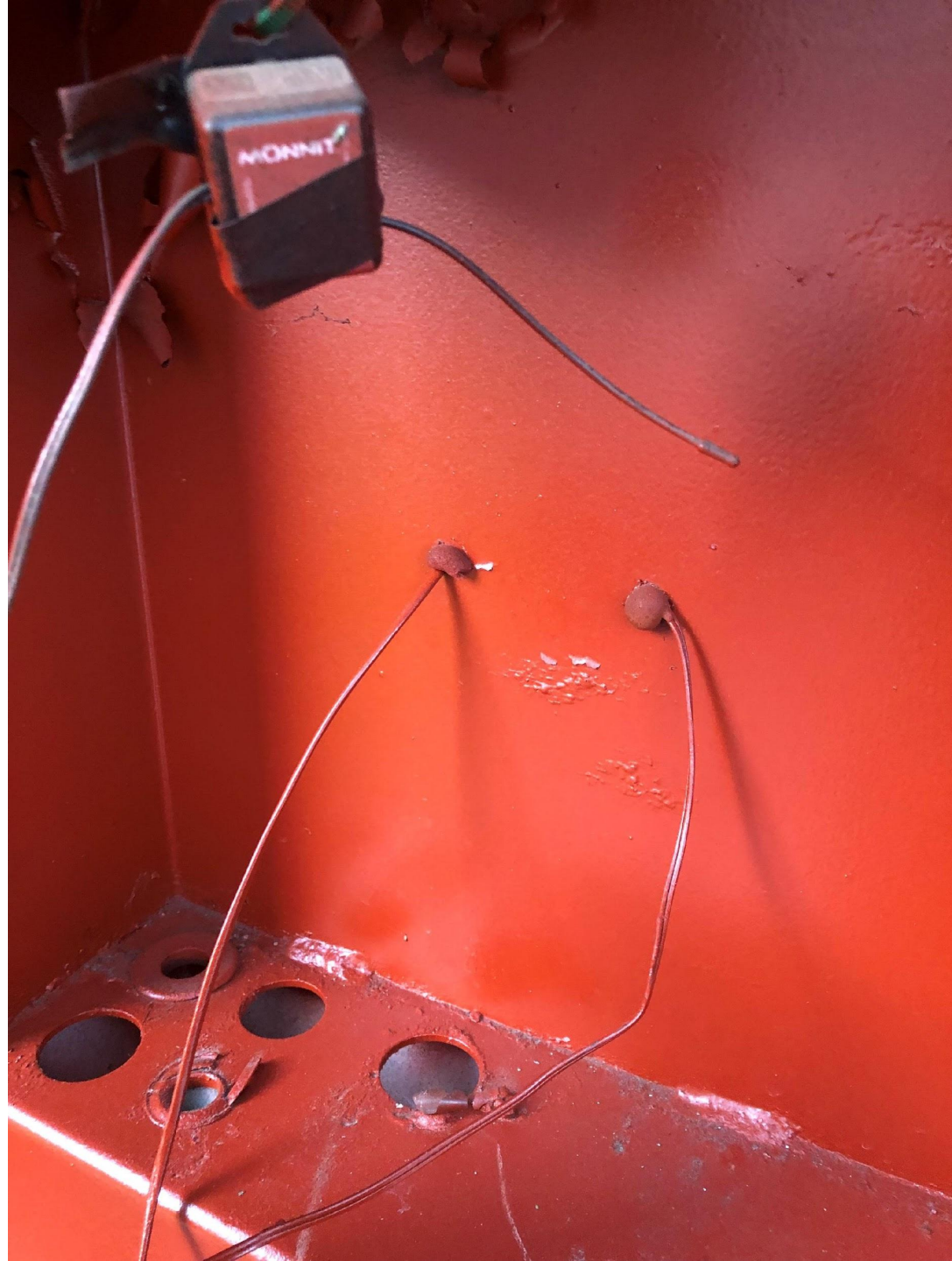






**DOW**  
BRAND™  
**Styrofoam**  
Square Edge Insulation





# Monnit Repeater in UPS Backup System



First Rule:  
You Can't Wish Your Fuel Tanks  
To Be Full

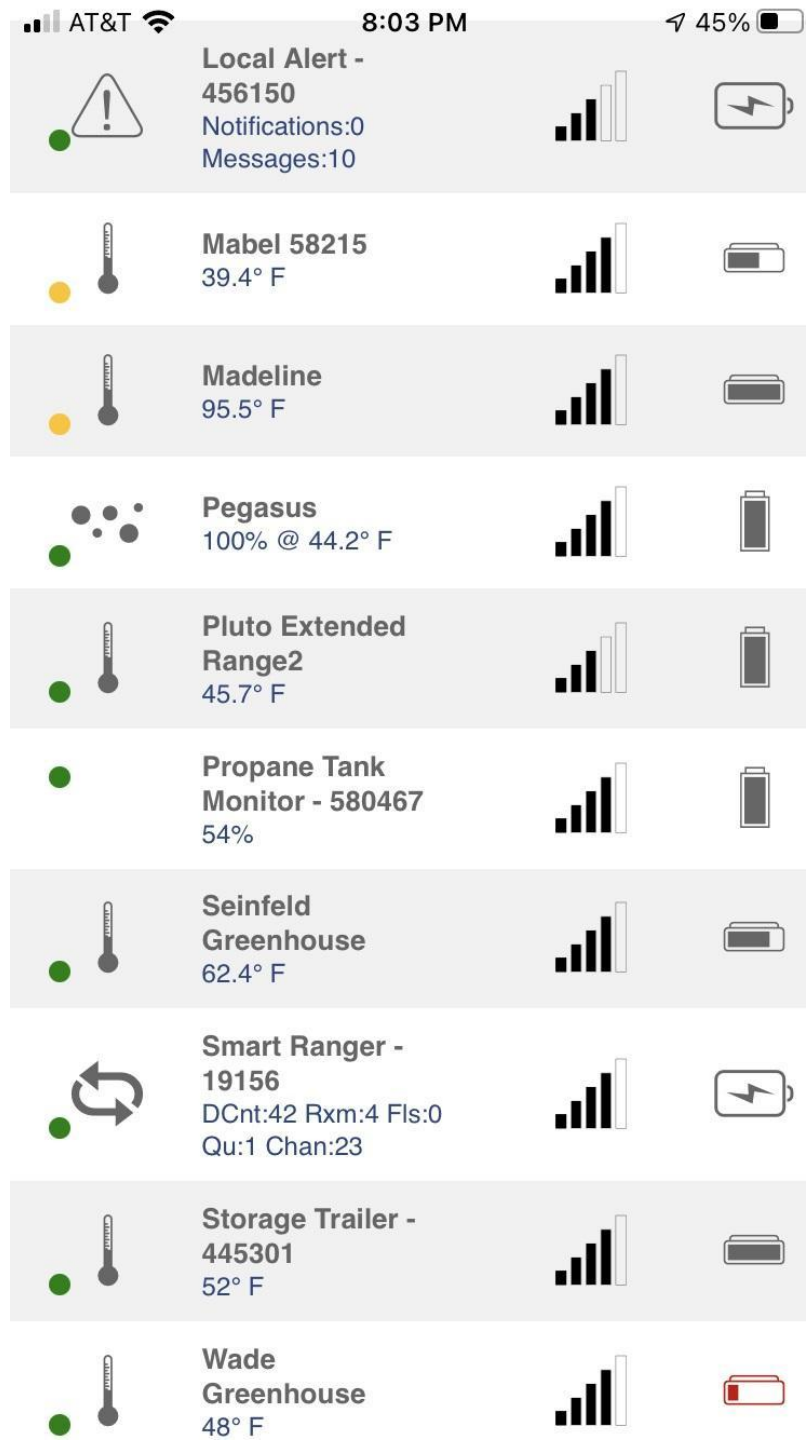
# Propane Tank Monitor



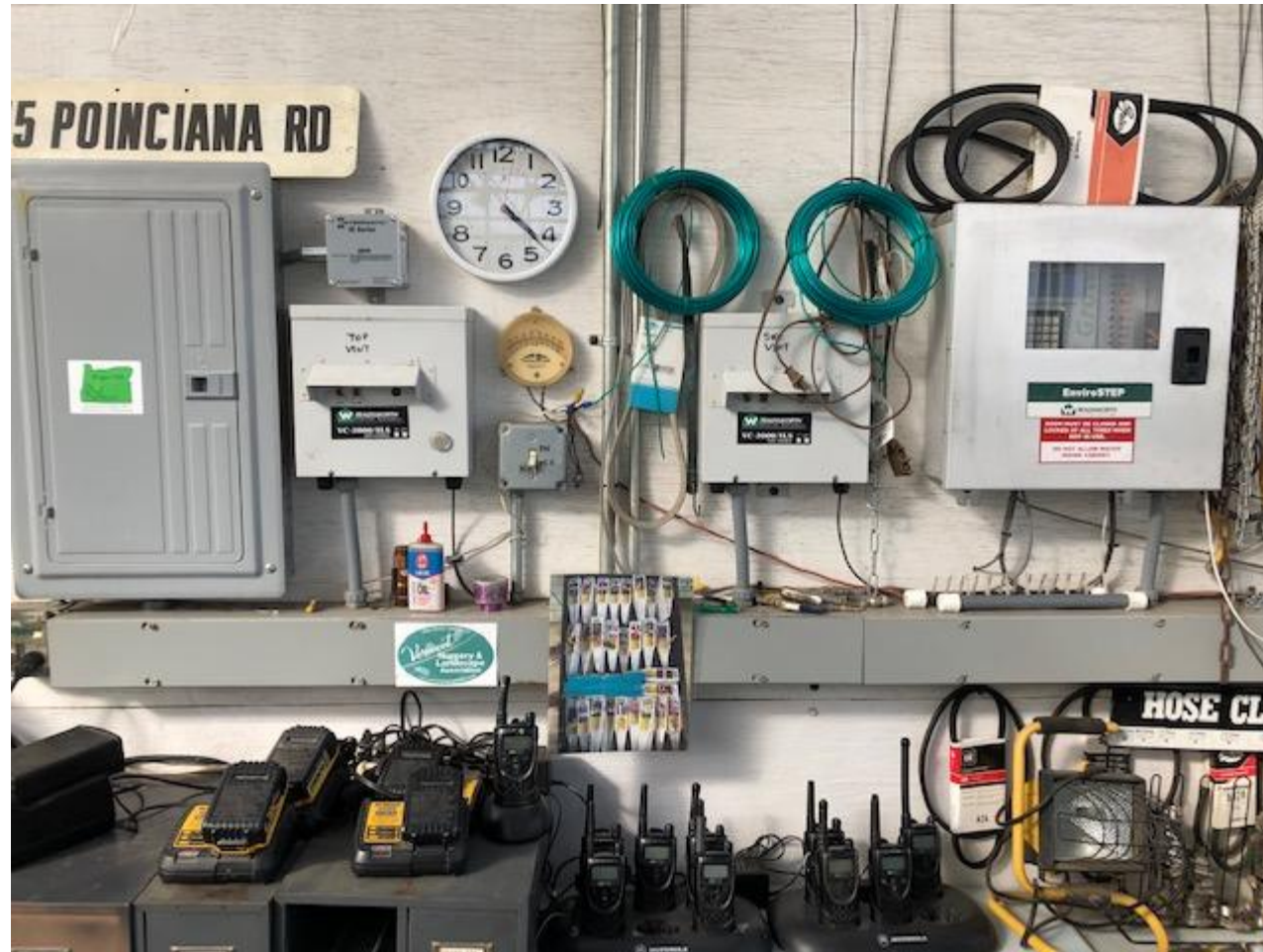
Propane Tank  
Level Monitor  
(needs R3D  
gauge on tank)



# iPhone App Screenshot



# Wadsworth Control Systems



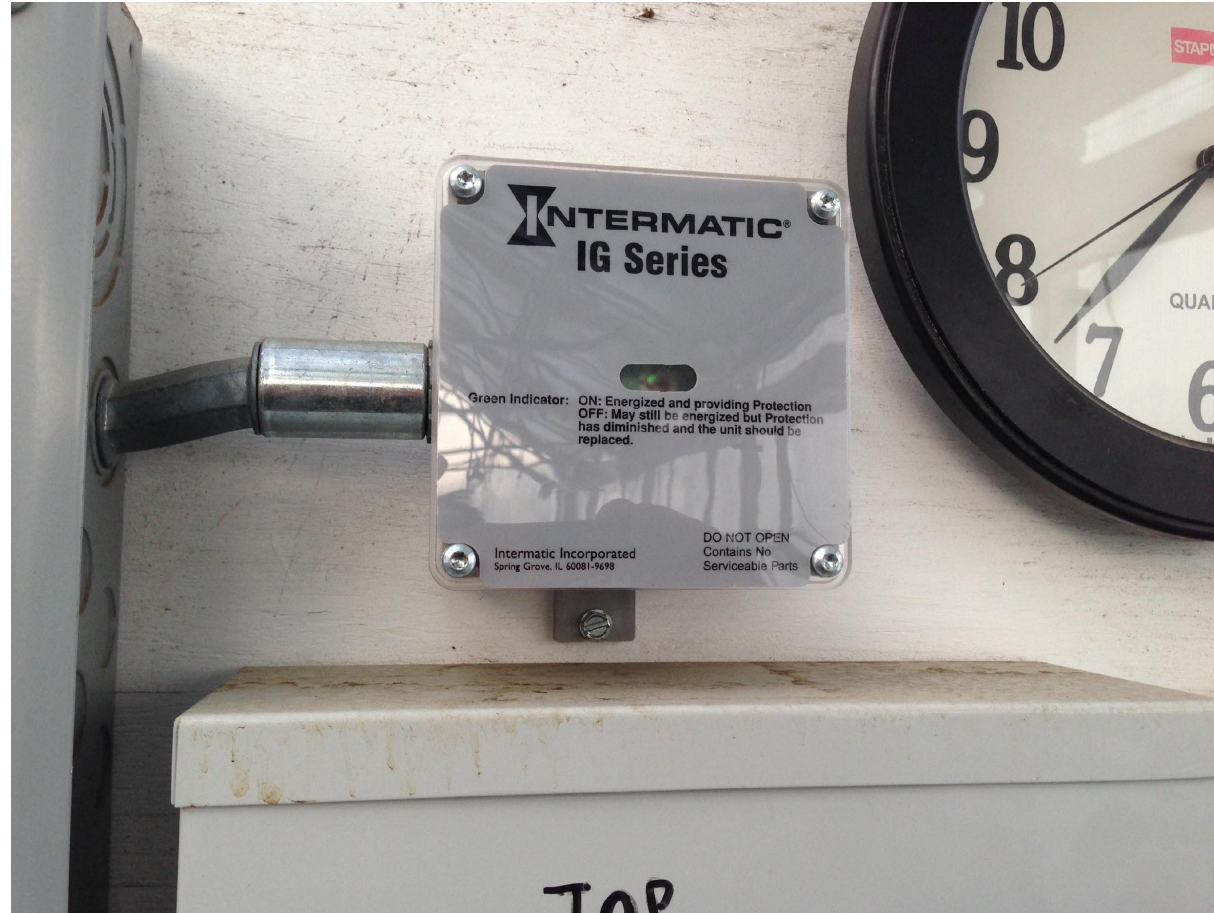


# Aspirator





# Intermatic Heavy Duty Surge Protector



# Nolt's 2023 Greenhouse Supply Catalog

AT&T 2:19 PM 6%

Galvanized Exhaust Tube Fan, has center finger galvanized battery shifter that can easily be removed for tube applications.

GEA24 24" Fan, 400 CFM, 1/2 hp motor \$498.00

Nolt's Greenhouse Supplies Phone: 717.354.8376 Fax: 717.406.1954

Item #	Description	Price
GCT612	12" Dia. Tubing, 6 mil 3 year	\$0.85/ft
GCT618	18" Dia. Tubing, 6 mil 3 year	\$1.10/ft
GCT624	24" Dia. Tubing, 6 mil 3 year	\$1.40/ft
GCT630	30" Dia. Tubing, 6 mil 3 year	\$1.68/ft

Small Order Upcharge of \$3.0 on orders less than \$10. Shipped from and FOB, Rochester, NH.

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### Thermalarm II

Metal contacts close the normally open switch when temperatures exceed the limits you set. Temperature range: 20°-110°F. No magnetic switch, no relay needed. 6-12 volts.

Item #	Description	Price
GEA300	Thermalarm II	\$45.00

### Prewired Temperature Alert

Low and high temperature alert. This sensor, made from a pair of our single stage mechanical thermostats, features superior accuracy and reliability, and will be less likely to corrode or stick than a Thermalarm. Set your desired temperature limits between 40° and 110°F. Labelled, easy to use, no relay needed, sized for up to 24 volts. Prewired with 2 wires to battery and 60 to stem. Battery and stem not included.

Item #	Description	Price
SEN2	Prewired Temperature Alert	\$99.00

### Sirens

Item #	Description	Price
GEA302	Outdoor Siren, Dual Tones, 115 VAC, 9-12 VDC	\$23.00
GEA302	Outdoor Siren with siren, 115 VAC, 9-12 VDC	\$28.00
BAT12V	12V Lantern Battery, thumb screw terminals	\$28.50

### EasyAlert Wireless Alarm System

This wireless alarm system is an advanced monitoring system that allows you to connect up to 20 wireless sensors, plus hardwired sensors. Wireless sensors have a range of up to 1 mile (line of sight), making this the ideal alarm system to monitor your property without running wires to every structure. With battery backup, the alarm will continue to monitor during a power failure.

**Customizable:** This system isn't limited to temperature monitoring.

**Wireless Alarm System Base:** Packaged with 110VAC charger and 1 temperature sensor, pre-programmed and ready to use. Enclosed in a plastic case with a speaker that produces a sharp chime when a transmitter is triggered. Adjustable volume. Can be programmed to produce a unique chime for each transmitter. If you put the base in your house, these chimes can wake you up. Or in an outbuilding we recommend you connect it to a outdoor siren. It has a built-in power failure & low battery alarm. Programming is done in the base, eliminating the need for a computer.

**HL6a Temperature Sensor** monitors all temperatures. High and low temperature set points can be set between 40° and 110°F. Wireless, uses 4 AA batteries. Sensor is a pair of weatherproof thermostats with a built in transmitter. By using these mechanical thermostats it makes for a very reliable easy to use transmitter.

### Sensaphone II

Remote Monitoring. Protect your investment even when you can't be there. Monitors your unattended facility to detect power failures, temperature extremes, intrusions, water intrusion, sounds such as smoke and burglar alarms, and other conditions of your choice.

Alerts you immediately if problems arise. In case of alarm automatically contacts you by phone at up to four (Sensaphone 400) or eight (Sensaphone 800) different phone numbers.

The system communicates in voice synthesized English. Call in any time from any phone for status reports which include power status, temperature, zone status, and also lets you listen to actual sounds onsite.

Includes built-in sensors to monitor a variety of conditions: High sound level, AC electric power failure, Battery backup, Temperature (uses 1 input). Configurable inputs work with temperature sensors and normally open & normally closed switch type sensors. If you use SEN2 Prewired Temperature Alert or GEA300 Thermalarm II you can parallel wire multiple units to one input.

Works on regular phone lines and/or on fax lines. Will not interfere with operation of answering machine and will not answer except selectively. Fully and easily programmable.

Item #	Description	Price
SEN400	Sensaphone 400, 4 configurable inputs, 4 call up to 4 phone numbers	\$440.00
SEN800	Sensaphone 800, 8 configurable inputs, 8 call up to 8 phone numbers	\$640.00
SEN202	Weatherproof Temperature Sensor, 12" Wire	\$36.00

### Alarm System

Item #	Description	Price
WA1710	Transmitter	\$25.00
WA1700	Alarm Base & 1 HL6a Temperature Sensor	\$399.00
WA1701	Additional HL6a Temperature Sensor	\$299.00
WA1714	Optional Solar Panel 12VDC Battery Charger	\$62.50
WA1701	Weatherproof, Custom 2400 call for base	\$180.00

Call for used with siren (GEA302) or with other 12V alarms.

**Custom Options:** Solar Panel recommended when 110VAC isn't available. Voice Dialer-calls up to 5 phone numbers when alarm is triggered. We can customize. Call us with any questions.

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noltsgreenhousesupplies.com

Second Rule:  
Alarms Only Work  
When They Work

