



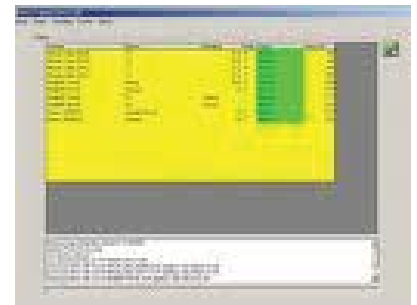
Product Description

You need to protect the equipment in your data center, computer room, or equipment room from the damaging effects of high temperature and high humidity. The best way to protect sensitive electronics is to constantly monitor the temperature and/or humidity in your data center, computer room, or server room and be notified immediately about an air conditioning system or power failure. The Computer Room Guard will give you immediate notification with a telephone alert call or an alert page. The early warning you receive will allow you to take corrective action before the servers melt down, bringing the enterprise to a halt. The Computer Room Guard will call up to four phone numbers or pagers to notify key personnel of a problem with any computer room, server room, or equipment room. Call anytime and hear the temperature and humidity and power status in a data center, computer room, server room, or equipment room. Computer/software independent telephone alert calls, made by devices like the Computer Room Guard, are a must-have for any mission critical monitoring application. For additional protection, water sensors can be connected to the Computer Room Guard to monitor for water leaks and warn you about damage from leaking air conditioners or pipes.

The Computer Room Guard can be used as a simple single room temperature alarm, a multiple room temperature alarm, a simple humidity alarm, a multiple room humidity alarm, or any combination of sensors to fulfill your requirements for an environmental alarm.

Key Features

- Programmable high and low temperature and humidity limits for each server room.
- Programmable time delay for each server room.
- Recordable identification message for each server room.
- Field correctable readings.
- Record a message to indicate the location of the Computer Room Guard.
- LCD displays real time data.
- Uses existing analog phone line, no need for a second phone line.
- Ethernet Data Collection Package. Data Logging Capabilities.



Model VM 500 series [VM508/VM508E]

Maximum Number of Sensors	Battery Backup	Power Alarm	Water Alarm	Telephone/Pager Alert Calls
4 Temperature /4 Humidity	Yes, 24 hours	Yes	Yes	Yes, 8 - 20 digit phone numbers

You need to receive alarm emails and text messages to notify you if your Temperature Guard detects a problem. You need to maintain a log of the data collected from your Temperature Guard. The Data Capture Program automatically collects and maintains a log of the data obtained from your Temperature Guard with DCP-E or MOLLY device.

Key Features

- View real time data.
- View historical data.
- Automatically sends alarm emails and text messages to key personnel that specifies the exact location and cause of the problem.
- Maintains secure data log files for all data.
- Easily create and print graphs over specified time periods for any data.
- Program limits remotely.

Specifications

Software Requirements: Windows 7, XP, Server 2008, Server 2003, Windows 2000.
 Data Capture is a desktop application that installs as standard executable, stand-alone application.
 Hardware Requirements: Network Interface Card, Connection to Ethernet
 Network Requirements: Ethernet network with DHCP Server (standard network)

COMPUTER ROOM GUARD™ MODELS VM508 AND VM508E**General Description**

The Computer Room Guard is a complete environmental monitor and auto dialer system in a wall mount enclosure. The Computer Room Guard monitors the temperature and humidity of up to four rooms and provides alarms based on power loss and water intrusion.



The Computer Room Guard will call and alert you with a voice message or a pager alert when a room's environment is out of range and your valuable equipment is in danger of being damaged.

Choose the VM508E to form a complete monitoring and alarming solution. With the Data Capture software the VM508E will call and send emails detailing the problem so you can quickly take corrective actions to avoid an expensive loss of property.

The Data Capture software automatically collects and maintains a log of the data obtained from your Computer Room Guard.

Features

- Monitor the temperature & humidity of up to four individual rooms
- Programmable high and low temperature & humidity limits for each room
- Programmable alarm time delay for each sensor
- Water Sensor input, get a call if water is detected in any room
- Calls up to eight programmable phone numbers
- Call and hear the temperature, humidity, and power status any time
- Pager compatible. Leaves call back number on numeric pages
- Power monitoring. Get a call if the power fails
- Buzzer and alarm relay output provide alerts to onsite staff
- Programmed settings are never lost!
- Recordable greeting message
- 24 hour rechargeable backup battery (included)

Functional Description**Monitoring**

The Computer Room Guard continuously monitors the temperature and humidity of up to four rooms and monitors for power loss and water leaks.

Remote Status Checking

The Computer Room Guard can be called anytime to check the temperature and humidity of any room, the power condition, and water sensor status.

Emergency Phone Calls

When the temperature or humidity are out of programmed limits, the power is out, or water has been detected the Computer Room Guard will dial all programmed phone numbers until contact is made. If contact has not been made after dialing all phone numbers, the Computer Room Guard will wait twenty minutes and then begin calling again. This sequence is repeated until contact is made.

When the Computer Room Guard is calling a standard voice number, it will play the recordable alarm message and the current temperature, humidity, and power status. The Computer Room Guard will then prompt the user to enter the PIN. When the correct PIN is entered, contact has been made. The Computer Room Guard will stop calling until a new alarm condition occurs. When the Computer Room Guard calls a pager number, it will transmit the programmable Local ID Number for display on the pager screen.

User Programmable Features

Maximum number of programmable callout numbers: 8
Maximum number of digits for callout numbers: 20
Maximum number of digits for the Local ID which is displayed when calling a pager: 20
Recording time for the Local Identification message: 9 seconds
Range of incoming rings before the VM500-8 answers: 1 to 20
Number of digits in programmable PIN: 4
All programmable sensor time delays: 0 to 900 minutes
Power outage alarm time delay: 0 to 900 minutes

Specifications

Temperature Measuring Range: 32°F to 125°F, $\pm 2^\circ\text{F}$ Accuracy
Humidity Measuring Range: 20% to 100% RH, 3%RH Accuracy
Power Requirements: 120VAC at 50/60 Hz wall mount transformer (included)
Outputs:
 Relay: 30VDC 1A contacts
 Alarm Buzzer: 85 dB
Electrical Connections: Two plug-in, 12 position terminal blocks
Material: Flame retardant ABS plastic, 94-5VA
Dimensions: Enclosure: 8.790" x 4.620" x 2.255" , Mounting Flange Holes: 8.250" x 3.500"
Ambient Operating Conditions: 32°F to 125°F
Shipping Weight: 2 lbs
Agency Compliance: Model VM508, VM508E FCC Approved and Registered, power supply UL listed

COMPUTER ROOM GUARD VM508E WITH DATA CAPTURE

- ◆ You need to receive alarm emails to notify you if your Temperature Guard detects a problem.
- ◆ You need to maintain a log file of the data collected from your Temperature Guard.
- ◆ Choose the VM508E to form a complete monitoring and alarming solution. The Computer Room Guard will call and send emails detailing the problem so you can quickly take corrective actions to avoid an expensive loss of property.
- ◆ The Data Capture Program automatically collects and maintains a log of the data obtained from your Computer Room Guard.

Features

- View real time data.
- View historical data.
- Automatically sends alarm emails to key personnel that specifies the exact location and cause of the problem.
- Maintains secure data log files for all data.
- Easily create and print graphs over specified time periods for any data.
- Remotely check the real time status with a web browser.
- Program limits remotely.

Specifications

LAN:	Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
Transport Protocol:	TCP/IP, UDP
Connector	RJ45
Regulatory Compliance:	FCC Class B compliant — EMC compliant Class B limits of EN 55022:1998 EN55022: 1998 + A1: 2000 + A2: 2003 Class B EN61000-3-2: 2000 Class A EN61000-3-3: 1995 + A1: 2001 EN55024: 1998 + A1: 2001 + A2: 2003 FCC CFR 47, PART 15 SUBPART B CLASS B ICES-003 ISSUE 4: February 2004 CLASS B AS/NZS CISPR 22:2002 CLASS B CISPR22: 1997 + A1: 2000
LED Indicators:	10Base-T connection 100Base-TX connection Link & activity indicator - Full/half duplex
Ambient Operating Conditions:	32°F to 125°F © 2010 Microtechnologies Incorporated

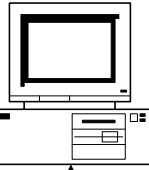
A Networked Temperature Guard with DCP-E

Data Capture program will send alert e-mails to key personnel whenever a problem arises.



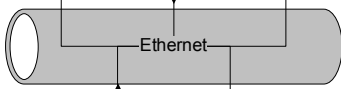
E-mail

PC running Data Capture



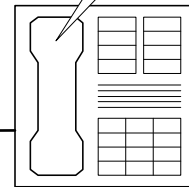
The Data Capture program collects and stores the environmental data collected from all of the Temperature Guard devices on the network.

The Temperature Guard connects directly to an ethernet network.

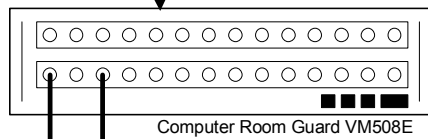


Ethernet

"Warning, the temperature is 45 degrees and has been out of limits for 10 minutes...."

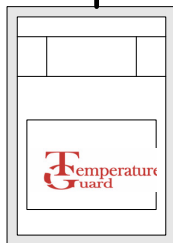


The Temperature Guard can be wired to various environmental sensors.

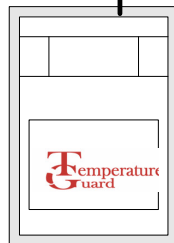


Computer Room Guard VM508E

The Temperature Guard connects directly to a phone line to allow it to call when a problem arises.



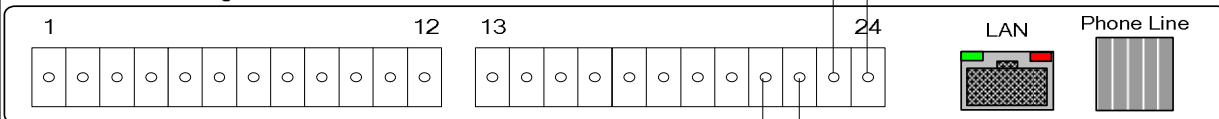
Temperature Sensor



Temperature and Humidity Sensor

Computer Room Guard Wiring Diagram (side view of enclosure)

Terminal Block Designations (LAN is on VM508E model)



Water Sensor
-connect up to 4 WTR-1040 water sensors in parallel

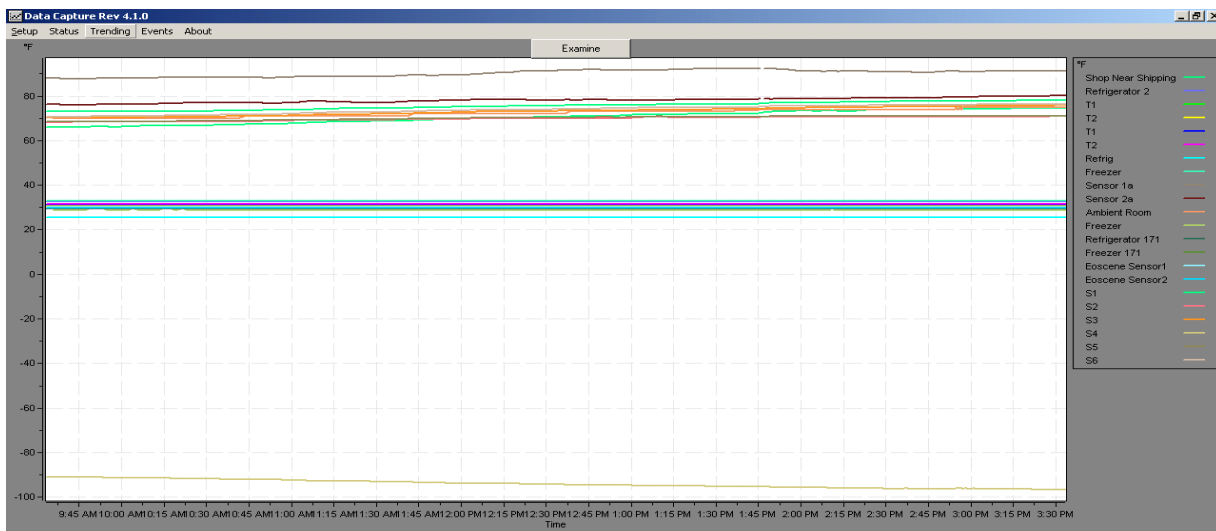
ETHERNET DATA COLLECTION PACKAGE (DCP-E)

- ◆ You need to receive alarm emails to notify you if your Temperature Guard detects a problem.
- ◆ You need to maintain a log of the data collected from your Temperature Guard.
- ◆ **A Temperature Guard with the DCP-E option is the perfect solution!**
- ◆ Add the DCP-E option to any Temperature Guard model to form a complete monitoring and alarming solution. The Temperature Guard will call and send emails detailing the problem so you can quickly take corrective actions to avoid an expensive loss of property.
- ◆ The Data Capture Program automatically collects and maintains a log of the data obtained from your Temperature Guard.



Features

- View real time data.
- View historical data.
- Automatically sends alarm emails to key personnel that specifies the exact location and cause of the problem.
- Maintains secure data log files for all data.
- Easily create and print graphs over specified time periods for any data.
- Remotely check the real time status with a web browser.
- Program limits remotely.
- Enter alarm resolutions into the database.



Specifications

ETHERNET DATA COLLECTION PACKAGE (DCP-E)

LAN: Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
Transport Protocol: TCP/IP, UDP
Connector: RJ45

Regulatory Compliance: FCC Class B compliant — EMC compliant
Class B limits of EN 55022:1998
EN55022: 1998 + A1: 2000 + A2: 2003 Class B
EN61000-3-2: 2000 Class A
EN61000-3-3: 1995 + A1: 2001
EN55024: 1998 + A1: 2001 + A2: 2003
FCC CFR 47, PART 15 SUBPART B CLASS B
ICES-003 ISSUE 4: February 2004 CLASS B
AS/NZS CISPR 22:2002 CLASS B
CISPR22: 1997 + A1: 2000

LED Indicators: 10Base-T connection
100Base-TX connection
Link & activity indicator - Full/half duplex

Ambient Operating Conditions: 32°F to 125°F

Data Capture's Status Window

Device	Sensor	Reading	Units	Status	Sensor ID
MollyMP 4A-A2	Shop Near Shipping	74.6	°F	ALARM	65
MollyMP 4A-A2	Refrigerator 2	32.9	°F	Normal	66
MollyMP 4A-A2	Freezer Door	Closed		Normal	67
MollyMP 4A-A2	Refrigerator Door	Closed		Normal	68
Minute Clinic B0-B5	T1	31.6	°F	Normal	97
Minute Clinic B0-B5	T2	30.5	°F	Normal	98
Minute Clinic D8-C7	T1	31.3	°F	Normal	101
Minute Clinic D8-C7	T2	31.8	°F	Normal	102
MollyMP 4A-87	Refrig	25.5	°F	Normal	109
MollyMP 4A-87	Freezer	33	°F	Normal	110
MollyMP 4A-87	D1	Closed		Normal	111
MollyMP 4A-87	D2	Closed		Normal	112
AV - 1	Sensor 1a	91.3	°F	Normal	123
AV - 1	Sensor 2a	80.2	°F	Normal	124
AV - 1	Door 1	Closed		Normal	125
AV - 1	Door 2	Closed		Normal	126
Demo VM500-5	Ambient Room	75	°F	Normal	127
Demo VM500-5	Freezer	29	°F	Normal	134
Eoscene Probe 171 WL	Refrigerator 171	29.5	°F	ALARM	147
Eoscene Probe 171 WL	Freezer 171	30	°F	ALARM	148
Eoscene Probe 211	Eoscene Sensor1	30.3	°F	Normal	151
Eoscene Probe 211	Eoscene Sensor2	30	°F	Normal	152
Property Guard v24	S1	78.2	°F	Normal	155
Property Guard v24	S2	70.9	°F	Normal	156
Property Guard v24	S3	75.9	°F	Normal	157

Backup copy of log files stored to: C:\BURN
Update Rate 15 seconds
Connection closed
Last download data at: 4/23/2008 3:30:53 PM
Communication with server MollyMP 4A-A2 at IP address 192.168.0.12: OK
Communication with server Minute Clinic B0-B5 at IP address 192.168.0.14: OK
Communication with server Minute Clinic D8-C7 at IP address 192.168.0.13: OK