GEIST
MONITOR | Watchdog

Watchdog 1250

Web-enabled environment monitor for equipment and server rooms with built-in climate sensors, ports for external sensors, LCD display and an alarm horn.

The Watchdog 1250 occupies a 1U space and contains a complete set of internal sensors. A variety of remote sensors are easily added.

- Accessible through a web browser
- Five built-in sensors
- Three analog inputs for 0-5 VDC sensors
- Five digital sensor ports for external digital-bus sensors
- LCD display cycles through sensor readings
- Multi-level alarms with escalation
- Alarm notifications sent by email and SNMP
- Audible horn triggered by alarm

Each Watchdog 1250 is self-contained and accessed through a built-in web server. A user only needs a standard web browser (e.g. FireFox, Internet Explorer) to view current sensor readings and graphs of previous values. The LCD display on the front of the unit shows a continuous display of sensor values. The climate monitor continually compares sensor data with user-defined alarms and sends notifications via e-mail, SNMP trap, or its built-in audio alarm if there is a problem.

Web Interface: Sensor Page

A web page displays the current values with graphs showing trends.

Web Interface
The web interface is the primary way to interact with the Watchdog 1250. This interface allows a user to remotely check the status of the environment, view graphs of logged data, and see web cam images.

Configuration and administration of the unit is done through the web interface. Access is user-name and password protected. HTTPS/SSL encryption can be used for added security.

The Watchdog 1250's firmware can be updated through the web interface.

Web Interface: Alarms Page

Alarm thresholds are user-configured through the web interface. A sensor can have several thresholds set.

Other Access Methods
Besides web access, there are a variety of methods that can also be used for obtaining sensor data from the unit. Current sensor readings are available in XML or through SNMP. Logged data can be downloaded as a CSV files.

The device also supports SNMP (v1, v2c, v3). This allows dozens of Network Monitoring programs such as HP OpenView, IP Sentry, MRTG, or What's Up Gold (Ipswitch) to easily add the Watchdog 1250 to the list of monitored devices.
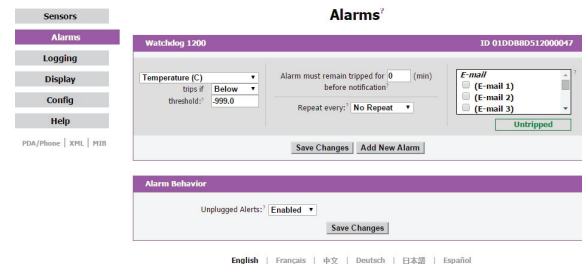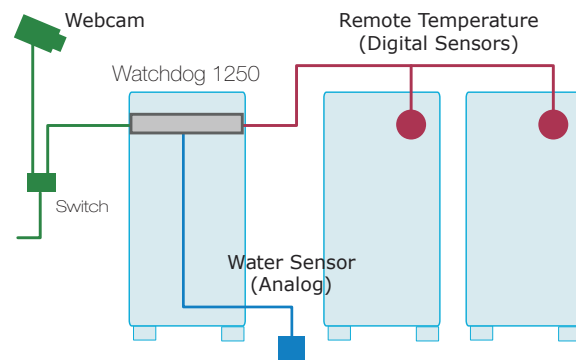
Watchdog 1250

Specifications

On-Board Sensors	
Temperature	
Range	-10 to 60°C (14 to 140°F) ††
Accuracy (typical)	± 1°C (± 1.8°F)
Relative Humidity	
Range	0 to 100% RH
Accuracy (typical)	± 3.0% RH
Dewpoint	Calculated value, based on temperature & humidity
Light Level	CdS photocell, uncalibrated (no fixed scale)
Sound Level	Peak detector, uncalibrated (no fixed scale)
Airflow	Thermal anemometer, uncalibrated (no fixed scale)

External Sensors	
Digital Sensor Ports	5
Max Digital Sensor Capacity	16
Analog Sensor Ports	3
Max Analog Sensor Capacity	3
Max Analog Input Range	0 to 5VDC, voltage-source or dry-contact

Hardware Features	
Ethernet	10/100 Mbps
Power	
Input	6 - 12VDC, 400mA (typ.), 2.1mm DC barrel plug (center-positive)
Power Supply Options	North American, British, Universal, None
"Reset" Button	Restore Factory Defaults
LCD Display	User-selectable display of current sensor readings
Piezo Alarm Buzzer	Activated by user-set alarm thresholds
Alarm Silencer Button	
Physical	
Dimensions (WxHxD)	19"W (48.26cm) x 2.5"D (6.35 cm) x 1.13"H (2.87 cm) (with included mounting brackets)
Weight	2 lbs (0.9 kg)
Mounting	Use brackets provided

Firmware	
Real Time Sensor Data Feeds	GUI, SNMP, XML
Environment Monitoring	Logging & Graphing, CSV Data Logs, Event Log
Interface with IP Surveillance Cameras	
Alarms	Alarm Escalations, Alarm Repeat & Delay, Business Hours
Web Access	Encryption via TLS/SSL (HTTPS), 3 Access Account Levels
SNMP Support	Versions (v1, v2c, v3), Trap Alerts (Trip / Clear)
Email	Email & Emails-to-SMS Alerts, Periodic Email Status Reports, ESMTP Authentication, SSL/TLS Encryption
Localization	Multiple Languages (English, French, German, Spanish, Chinese, Japanese), Display in °F or °C

US Measurements	
Protocols	IPv4, HTTP / HTTPS, DHCP, NTP, Syslog, Ping
Additional Features	Friendly Names Per Sensor, Configuration Backup, Remote Configuration & Firmware Updates
Warranty	1 Year Standard Warranty

Monitoring Multiple Cabinets

A Watchdog 1250 using remote temperature sensors to monitor multiple cabinets. A water sensor checks for water leaks, and a web cam provides remote images of the room.
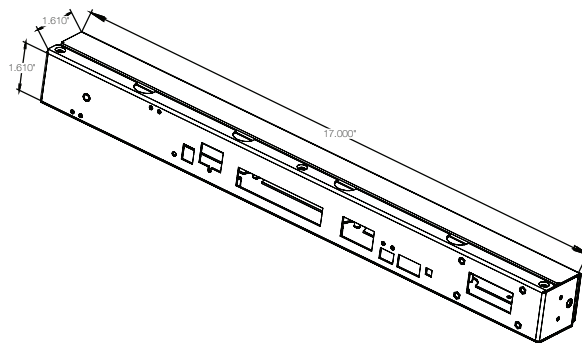

†† operating range of standard 6V power supply is 0-50°C. Operation across wider range requires using PoE, or an alternative 6V power supply with extended temperature range.

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