

GEIST MONITOR | Watchdog

Watchdog 100/Watchdog 100-P

Compact Package offering climate monitoring and relay control with several mounting and wire management options

- Monitor temperature, humidity & dew point
- Four analog inputs for dry-contact or 0-5 VDC sensors
- Digital sensor port (connect up to 4 sensors using splitters)
- Set alerts via email, email-to-SMS, SNMP and voice†
- Relay output for external device control
- Control relay via alarm or manually through web

The Watchdog 100 is a self-contained unit with on-board temperature and humidity/dew-point sensors. It has four analog inputs and supports up to 4 digital sensors (using a splitter). There is also a relay output for triggering external devices, such as an auto-dialer.

The Watchdog 100 allows users to keep an eye on remote conditions from a secure web interface and receive SNMP, E-mail, text message and voice call† alert notifications when user-adjustable thresholds are exceeded.

Web Interface

Only a web browser is needed to access and configure the Watchdog 100. The web interface provides a remote user with real-time sensor readings with graphs, access to logs and manual control features. Access to these and other functions are protected by up to three access account levels. The Watchdog 100 provides encryption for secure communication with web browsers using HTTPS.

Other Access Methods

Besides web access, there are several methods to access sensor data from the unit. Current sensor readings and meta-tagged system info is available in XML. Logged data can be downloaded as a CSV file that can be viewed with spreadsheet software.

The device also supports SNMP (v1, v2c). 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 100 to the list of monitored devices.

Alarms

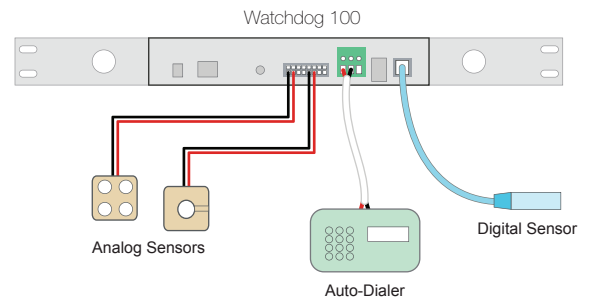
A user sets alarm thresholds (up to 50) to define sensor boundaries and indicate what to do if there is a problem. Multiple thresholds are assigned to a sensor for alarm escalation.



The Watchdog 100 is a compact, low cost climate monitor with relay output.



The mounting brackets can be repositioned or removed to simplify installation.



This diagram shows how remote sensors and an external device connect to the unit.

Overview	
Watchdog 100 [TestRack]	
Temperature	75.32 °F
Humidity	38 %
Dewpoint	47.94 °F
AI1	99.01
AI2	99.11
AI3	99.01
AI4	99.11

The "Overview" page of the web interface provides real-time sensor values.

Relay Settings				
Relay	Relay Name	Energized	De-energized	Mode
Relay-1	Relay1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Latching
<input type="button" value="Save Changes"/>				
Manual Override				
Relay	Status	Action		
Relay1	De-energized	<input type="text" value="(Do Nothing)"/>		
<input type="button" value="Execute"/>				

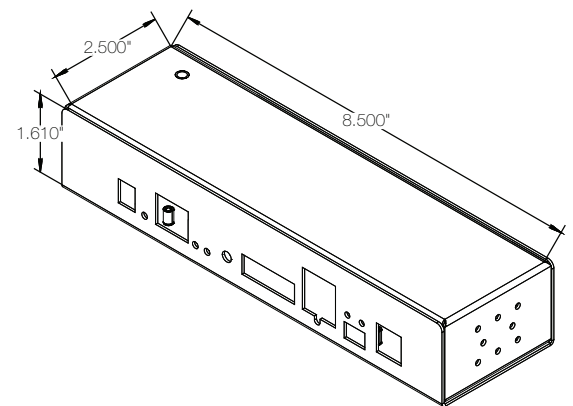
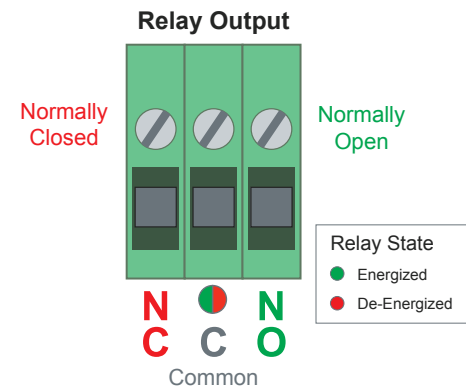
Watchdog 100/Watchdog 100-P

Specifications

On-Board Sensors	
Temperature	
Range	-20°C to 85°C (-4°F to 185°F)††
Accuracy (typical)	± 0.3°C (± 0.5°F)
Relative Humidity	
Range	0 to 100% RH
Accuracy (typical)	± 2.0% RH
Dewpoint	Calculated value, based on temperature & humidity
Hardware Features	
Ethernet	10/100
Power	
Input	6 - 12VDC (250mA typ., 350mA max.)
Power Supply Options	North American, British (UK), "universal" (US/UK/Europe/Australia plug set), None
Power Over Ethernet	IEEE802.3af (Watchdog 100-P only)
"Reset" Button	Clear IP address & passwords, or restore all to factory defaults
Physical	
Dimensions (WxHxD)	8.5"W (21.6 cm) x 2.5"D (6.35 cm) x 1.13"H (2.87 cm) (19"W (48.26cm) with included mounting brackets)
Weight	2 lbs (0.9 kg)
Mounting	Use provided brackets
Firmware	
Real Time Sensor Data Feeds	GUI, SNMP
Environment Monitoring	Logging & Graphing, CSV Data Logs, 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 †, Display in Metric or US Measurements
Protocols	IPv6†, IPv4, HTTP / HTTPS, DHCP, NTP, Syslog, Ping
Additional Features	Friendly Names Per Sensor, Configuration Cloning†, Remote Configuration & Firmware Updates
External Sensors	
Digital Sensor Ports	1
Max Digital Sensor Capacity	4
Analog Sensor Ports	4
Max Analog Sensor Capacity	4
Max Analog Input Range	0 to 5VDC, voltage-source or dry-contact
Relay Outputs	1 dry-contact, SPDT
Relay Max. Switching	60VDC @ 0.5A / 30VAC(rms) @ 1A

† will be available via firmware upgrade; est. availability, 3rd qtr. 2015

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



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