

ServSensor Contact

Environmental Monitoring Appliance with Dry Contact Inputs



- Supports up to 8 plug-and-play sensors
- 20 dry contact inputs, expandable up to 100
- Email warnings and alarms / SNMP traps
- Java-based web user interface

Intelligent monitoring solutions for your enterprise resources

Many different types of equipment and devices use dry contact outputs to send alarm signals to remote panels, remote monitoring systems, and building management systems. Communicating the status of these dry contact systems is important in a complex enterprise network, or automation industry to protect the mission critical installations of expensive equipment.

ServSensor Contact is the solution you need for such applications. It is based on Black Box's popular ServSensor product with 20 additional dry contact inputs. It comes in a 1U 19-inch rack-mountable robust metallic enclosure.

System architecture

At the core of the unit is the ServSensor, which is enhanced with the 20 dry contact system. This offers support for remote monitoring and management of various external devices. This integrated system enables connection and monitoring of devices like HVAC systems, security equipment, UPS, generators, industrial equipment etc.

ServSensor Contact comes with 8 full auto-sense RJ-45 ports for connecting any of the intelligent sensors from the ServSensor product line. An additional 20 (60), 2 wire dry contact ports are provided giving a total of up to 28 (68) dry contact ports. The specially designed 2 wire dry contact ports are easy to use and allow you to make your own dry contact cables quickly and easily.

ServSensor Contact is a completely embedded host and comes with a proprietary Linux-like operating system. Its internal web server, e-mail and full SNMP functionality makes it virtually a 'plug-n-play' device that is extremely easy to use and maintain.

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Installation and use

The installation process is also simple and there's no need for additional power supply or batteries when new sensors are added.

You can connect up to 8 of intelligent, auto-sense sensors in any combination to monitor temperature, humidity, water leakage and airflow including long term graphing, security, detection of AC power line voltage, measurement of DC voltage, control relays and more. An integrated data collection and graphing package is especially useful in spotting trends and providing information for analysis.

The improved web interface gives you the freedom to configure the dry contacts and setting the alarms to keep you informed. The built-in database maintains a time-stamped log of all events.

Integration and updates

The product is fully embedded with SNMP, which means a tightly integrated solution for integrating with any of your SNMP based network management systems.

The ServSensor Contact's advanced micro code can be easily and effectively updated over the network. The updates are free of charge.

Connections

Sensors: (8) RJ45 F, proprietary signaling
 Dry contacts: (20) terminal screw-compatible inputs
 Network: (1) RJ45 F 10BASE-T autosense
 Power: (1) 2.4 mm jack F

Engine

Processor: AVR 8-Bit RISC
 Memory: 128 kB NVRAM, 32 kB SDRAM
 Operating system: proprietary

Operation

Data measurement and display: sensor measurement and graphing
 Alerting and alarms: configurable low / high warning and critical levels, email alerts, SNMP traps
 Protocols supported (client): DHCP, DNS, SMTP, (S)NTP, SNMPv1

Management

Indicators: (1) Power, (1) Link, (1) Activity, per sensor port: (1) Online, (1) Status; per dry contact input: (1) Online, (1) Status

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Configuration and control: via web browser (HTTP)

Security and access control: admin / user access levels, password-protected login

Physical and Environmental

Size (H x W x D): 4.2 x 45.7 x 12.7 cm

Weight: 2 kg

Operating temperature range: 0 to +45 °C

Operating temperature humidity: 20 to 80%RH, non-condensing

Operating altitude: 0 to 3000 m

Power supply: external; Input: 100 - 240 V AC 47 - 63 Hz autosense; Output: 7.5 V DC, max. 2 A

MTBF: 87600 h

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Article	Article
EME111A-20	ServSensor Contact, no sensors, 20 dry contact inputs
EME111A-60	ServSensor Contact, no sensors, 60 dry contact inputs
EME112A-20	ServSensor Contact, temp. sensor, 20 dry contact inputs
EME112A-60	ServSensor Contact, temp. sensor, 60 dry contact inputs
EME113A-20	ServSensor Contact, temp./humidity sensor, 20 dry contact inputs
EME113A-60	ServSensor Contact, temp./humidity sensor, 60 dry contact inputs