Site Monitor
SM9S

Introduction

The Site Monitor is a monitoring and security module developed with the aim of providing accurate information through the Web server and SNMP-V2 protocol. Its versatility is one of its highlights, allowing seamless integration with a variety of leading market management software, such as Zabbix, Grafana, LibreNMS, The Dude, among other systems.

With an intuitive web interface, the Site Monitor provides quick configuration and access to crucial information, including AC and DC voltage measurement, as well as temperature data, making environment monitoring a swift and easy task to perform. Its broad applicability is an advantage, covering critical environments such as POPs, Data Centers, Racks, and telecom towers, as well as other locations requiring real-time monitoring.

The product offers an additional feature of equipment control through a relay output. This output allows manual or automatic activation of connected devices. The "scheduling" configuration is one of the main highlights of this function, allowing users to program the activation time as well as the days of the week when the relay will change state. This configuration enables event scheduling and precise control of connected devices.

Additionally, the Site Monitor SM9S also features three dry contact sensors and a digital input, adding flexibility to the device and allowing it to be used in various ways. It can function as a smoke sensor, door sensor, magnetic sensor, presence sensor, battery sensor, and other possibilities. This provides effective customization, adjusting monitoring according to the specific needs of each installation.

Features and Highlights

- AC mains voltage monitoring;
- DC power supply voltage monitoring;
- Local WEB server for control and monitoring;
- SNMP-V2 protocol for monitoring;
- Compatible with monitoring systems such as Zabbix, Grafana, LibreNMS, The Dude, among others;
- 3 inputs for dry contact sensors;
- 1 input for digital sensor;
- Temperature monitoring (integrated sensor);
- Relative humidity monitoring (integrated sensor);
- Programmable dry contact output for up to 5 A;
- Possibility of sending alerts and status via email and Telegram, in conjunction with SNMP manager software;
- Easy installation;
- Manufactured in Brazil.

Applications

- Critical power loads;
- Telecommunication networks;
- Data centers;
- Renewable energy systems;
- Alarm systems.

ALGcom Ind e Serv em Telecom Ltda - Rua Dalton Lahm dos Reis, 289, Caxias do Sul/RS/Brasil
vendas@algcom.com.br | +55 54 3201-1903 | www.algcom.com.br

Technical Specifications

Input Characteristics	
Input Power Supply Voltage	10 – 60 V_{DC}
Input Connection	RJ45 PoE 802.3af Connector
	Terminal Block Connector for up to 1.5mm^2 wire
Sensor Characteristics	
AC Voltage Sensor	60 – 270 V_{AC}
	Terminal Block Connector for wire up to 1.5mm^2
DC Voltage Sensor	10 – 60 V_{DC}
	Terminal Block Connector for wire up to 1.5mm^2 (same connector as the power input)
Temperature Sensor	-20°C to 65°C, Integrated Sensor
Humidity Sensor	0% to 100% RH, Integrated Sensor
Dry Contact Inputs	0 - 60 V_{DC}
Digital Input	0 - 60 V_{DC} (Voltage above 5 V_{DC} refers to logic level 1)
Relay	0V - 250 V_{AC} to 5 A
	Terminal block connector for wire up to 1.5mm^2
Management Interface	
Ethernet	10/100 Mbps
Supported Protocols	TCP/IP – SNMP V2
Firmware Updates	Remote Update Management Interface
Relay Output	Voltage, temperature, humidity, dry contact inputs, digital input alarms.
Monitoring	AC voltage, DC voltage, temperature, humidity, dry contact inputs, digital input, automation relay status measurement.
	Allows customization of the name of each sensor, making it easier to identify connected devices.
Commands	Allows remote On/Off relay command sending.
Scheduling	Allows configuring up to 10 scheduling for relay activation, which can be programmed with time and day of the week accuracy.
Manually Restore Factory Settings	The command is executed through a button located on the front panel. When pressed, it is possible to restore network settings to factory values.
General Specifications	
AC Input to Earth Isolation	1000 VAC
DC Input to Earth Isolation	1000 VAC
Relay Contacts to Earth Isolation	1000 VAC
Operating Temperature	-10°C to 60°C
Operating Humidity	10% to 90% RH (non-condensing)
Device Power On Indicator (Green LED)	Device Power On
Relay Activation Indicator (Green LED)	Relay Activated
MTBF (Mean Time Between Failures)	120,000 hours
Installation Mode	Rack or Panel Mounting
Dimensions (H x W x D) / Weight	34 x 110 x 113 mm / 0.297 kg