FROG ENGINEERING

Sensor control, access control

DC-MON-MAIN08P-0X

Monitor the physical environment and receive alerts of any disturbances, such as unauthorized intruders, security breaches, high temperatures, smoke, water leakages, power outages and more.

Compatible with all of the Frog Engineering range of Intelligent Sensors, it provides a complete environmental, access control and security monitoring solution.

Introducing the DC-MON-MAIN08P-0X

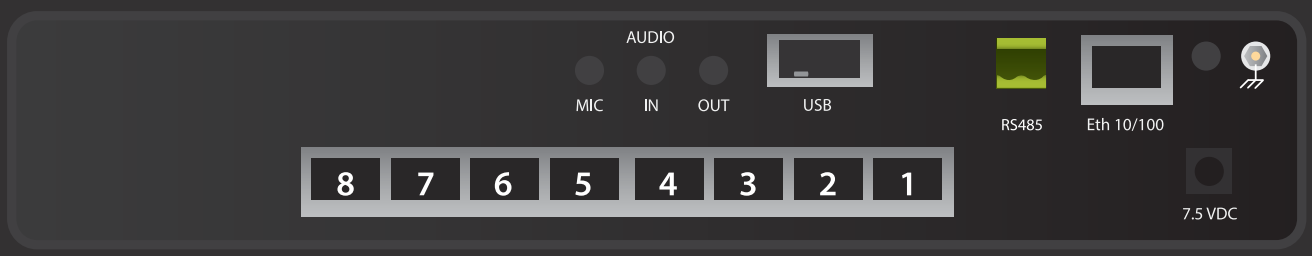
The DC-MON-MAIN08P-0X has a Linux Operating System with a 2 Gigabytes SD card, installed to provide greater storage capacity. It is TCP/IP compliant and runs lighttpd web server including https (SSL), Bash, Perl, Telnet, PHP, Email and Nagions. The DC-MON-MAIN08P-0X has an easy-to-use web-based user interface for sensor configuration, data collection and extensive graphing. Complete SNMP functions sucn including SNMP v3 encryption are supported.

The DC-MON-MAIN08P-0X also supports Modbus Master / Slave, Modbus RTU and Modbus over TCP / IP creating a unique, easy to cınfigure Modbus to SNMP gateway. The web-based interface is written in PHP allowing end-user changes such as languages translation. The DC-MON-MAIN08P-0X has a battery backed time of day clock for accurate record keeping.

DC-MON-MAIN08P-0X On-Board Architecture

Up to 8 of Frog Engineering´s Intelligent Sensors can be connected to the DC-MON-MAIN08P-0X. When plugged in, sensors automatically configure themselves and go "online". Using the either the DC-MON-EXPO8P-SUB, or the DC-MON-EXP16P-IN expansion modules, up to 500 sensors can be connected to a single unit. Our easy-to-use port numbering system allows you to setup the DC-MON-MAIN08P-0X within minutes.

- iMX25 CPU
- 10/100 Mbps Ethernet Port
- 1x USB 2.0 Port
- RS485 Ports
- Internal Audio Speaker
- Internal Microphone
- 8 Full AutoSense RJ-45 Ports
- 2x RJ-45 Expansion Ports

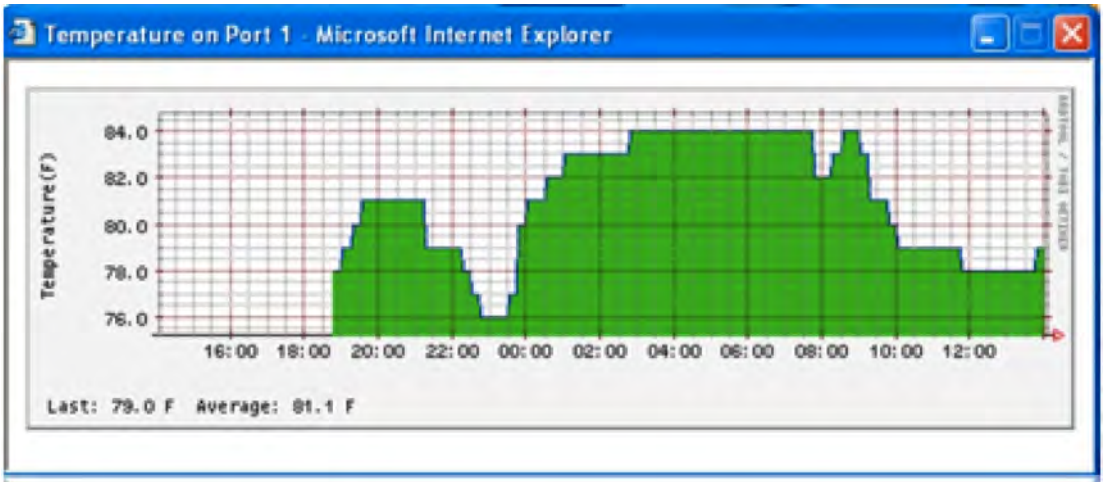


Applications

Sensor Graphing

DC-MON-MAIN08P-0X integrates and displays graphs of all sensor data in its web-based user interface. The individual graph (day, week, month and year) for each sensor type can be customized, simply by modifiying the script template used to generate a particular graph. RRD tool is used to build an embedded database of sensor data.

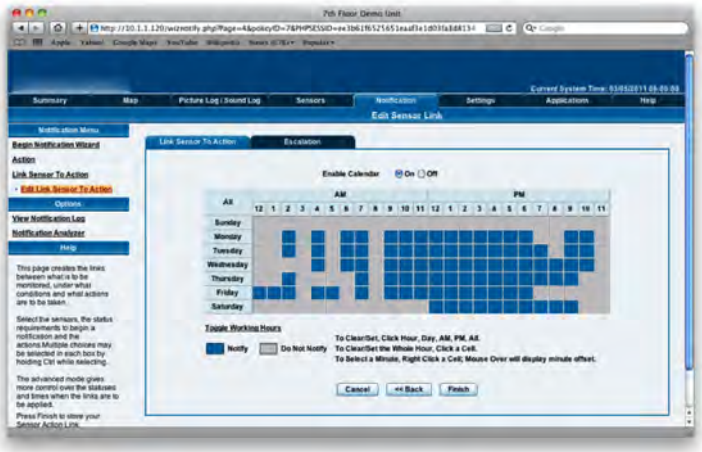
This data can be accessed from the web interface, or downloaded to a remote PC. MRTG can be used to generate real-time graphs of sensor data on a remote website.



Advanced Sensor Graphs via RRD Tools

False Message Filter

In order to prevent false alarms, theDC-MON-MAIN08P-0X allows extensive filtering of events. You can limit events based on the time of the day or the day of the week. You can also limit to number of alters per hour, so that you are not swamped with many messages. This is especially important with the sensor like the motion detector where you may want to process an event only when the business premises are closed.



False Message Filters via Calendar Setups

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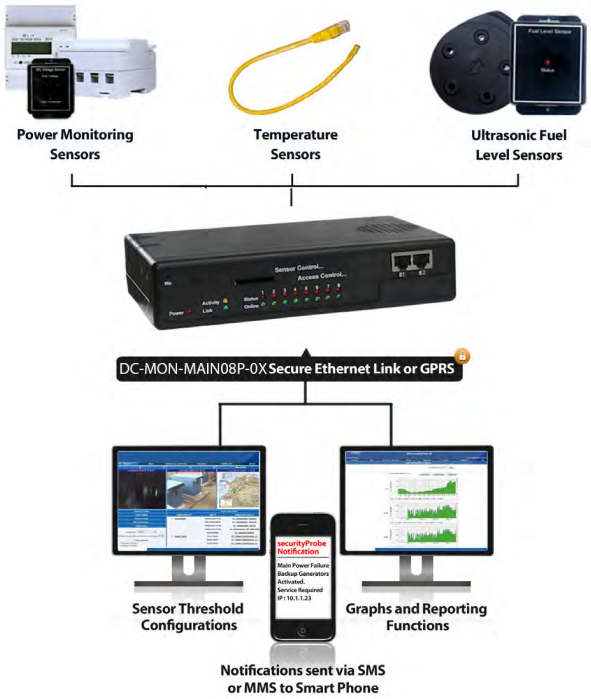
Sensor Integration & Notification System



Up to 8 of Frog Engineering´s Intelligent Sensors can be connected to the DC-MON-MAIN08P-0X. When plugged in, the sensor automatically configures itself and goes online. Using the either the DC-MON-EXPO8P-SUB, or theDC-MON-EXP16P-IN expansion modules, up to 500 sensors can be connected to single unit. Our easy-to-use web based interface allows you to setup the DC-MON-MAIN08P-0X within minutes. When online, the sensors use their 4 levels of threshold checking and report any status change.

Notifications and alarms can be dependent on the states of multiple sensors, and can be configured to escalate in severity over time. The notification system can alert you of a problem via email, SMS messages and telephone calls, (additional hardware required), or send a message to any commercial network monitoring system using SNMP traps. The DC-MON-MAIN08P-0X can automatically switch a relay on or off, wake-up or shutdown a remote server, send data via FTP, send a FAX, run your custom script and many more versatile functions.

The DC-MON-MAIN08P-0X can automatically push out the complete status of the unit and sensors via the Heartbeat Message feature. This can be setup to be send through e-mail, SMS or SNMP traps. A HTTP get script can also be chosen, allowing the data to be pushed to web servers.

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Industry Certifications & Network Management Systems

Frog Engineering offers NMS Integration for leading network management systems such as:

- AdRem NetCrunch
- IBM Tivoli
- SiteScope
- Quest Software - Big Brother
- Loriot Pro
- Somis WebNM and Denika
- Castle Rock
- Logalot
- WhatsUp Gold
- HP OpenView
- MRTG
- Computer Associates Unicenter TNG

DC-MON-MAIN08P-0X Features List

- Embedded web server display sensor information and live video from connected cameras.
- Receive notifications of anomalous events via email, SMS / MMSi SNMP traps, and many more.
- Integrates with network management systems via SNMPv1 and Encrypted SNMPv3.
- Stream sensor information directly to your cellphone or PDA.
- Ability to connect external GPRS / GSM modem, Blutooth and WiFi USB adapters.
- Uses Linux operating system for maximum stabilirty and flexibility.
- Virtual Sensors monitor power, Modbus, network devices and other SNMP based equipment.
- Built-in graphing and data logging, internally or to a remote PC.
- Platform independent; free firmware upgrades and utilities from Frog Engineering.
- Monitor up to 500 intelligent range of Frog Engineering Intelligent Sensors
- Full Modbus support: Modbus Master / Slave, Modbus RTU, Modbus over TCP / IP

Technical Specifications

Dimensions

Size : 8.5" x 5.43" x 1.80"
Weight : 1.72 Pounds

Expansion Ports

2x RJ-45 Expansion Ports
115.2K BPS Data Transfer Rate
Simultaneous Functionality between Expansion Ports & RS485 Port Threshold Status

Mounting

Rack Mount Brackets included
Compatible with Frog Engineering's DIN and Rack Mount Trays

Power Requirements

Voltage : 7.0 - 9.0 VDC, 3Amp

Status Indication

LED Indication for Power
LED for Network Connectivity
LED for Sensor Online and Threshold Status

Output

Ext. Speaker Out, 2.5" Jack (Analog) For Modem Application

Power Consumption

Typical 5.025 Watt, 0.670A

Operating Environment

Temp : Min -35°C - Max +55°C
Humidity : Min 20% - Max 80% (Non-Condensing)

Components

Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.

iMX25 Processor
128 MB NAND Flash
Internal On-Board SD Memory Slot Driver

Inputs

8x RJ-45 Sensor Ports
2x RJ-45 Expansion Ports
1x USB Port (Version 2.0)
Audio In (Analog) 2.5" Jack
RS485, 2 Pin Terminal Box (Used for MODBUS)

MTBF

400,000 Hours

Expansion Boards

8 Port Intelligent Sensors Module (E-Sensor 8)
16 Port Dry Contacts Module (E-OPTO16)
Extendable up to 1,000 Feet or 300 Meters
Expansion modules are daisy chainable.