



## Flexible Solution for all your monitoring needs

### MANAGEMENT APPLIANCE FOR POWER AND ENVIRONMENT

MAPe' is Management Appliance for Power and Environment. It monitors critical environmental conditions, such as smoke, temperature, humidity, liquid/water presence, motion, intrusion, and vibration etc. When a sensor goes out of the range of a configurable threshold, the system alerts via email, alarm beacon, web interface or SNMP traps.

MAPe' can be integrated with various Open Source monitoring packages such as Nagios as well as other NMSs like HP Openview etc. The NMS can, then communicate with MAPe through standard SNMP protocol.

The appliance monitors and manages server room environmental and security conditions over IP. Used in data centers, co-location sites, web hosting facilities, telecom switching sites, POP sites, server closets or any unmanned area that needs to be monitored. User can activate output relays and/or intelligent power sockets for control of external devices. Relays can also be activated upon specific alarm. It can be used to monitor IP network devices through ICMP ping or calling an HTTP service. In this case, alerts are sent if devices are not responding.

The power supply for all sensors is provided from MAPe (except for some very special reason).

#### MAIN FEATURES

- POWER MONITORING & CONTROL
- ENVIRONMENTAL MONITORING
- WEB / INTERNET INTERFACE
- SNMP V1 AND V2C SUPPORT
- BUILTIN BATTERY BACKUP
- SMS, ETHERNET ALERTS
- INTELLIGENT POWER SOCKETS
- DRY CONTACT OUTPUTS
- 220VAC & -48VDC POWER INPUT



#### MAPe' APPLICATIONS

Data centers are the most sensitive places in any network. MAPe takes care of the most critical threats to these sites i.e., power failure and raised temperature.

Monitoring remote sites is always a tedious job. MAPe allows the users to monitor as well control various devices remotely without the need of physical presence of any personnel. User can activate an alarm, hard reboot a machine or take any necessary action to counter a critical situation.

- Data center environment monitoring
- Web hosting facilities
- Remote and unmanned sites
- Telecom switching sites
- Banks and ATMS
- Home monitoring and automation

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## CUSTOMISED SOLUTION

The appliance is designed to provide customized configuration depending upon user requirement. Our design team can accommodate almost any kind of client specific requirements



## DEVICE CONFIGURATION

The appliance is configured through MAPe<sup>1</sup> Management System (MMS), a feature enriched and easy to use software. MAPe may also be configured through its own web interface. This interface provides all critical settings which enable it to be used as standalone appliance. User may also see real time sensors' status through this interface.



## INTERFACE WITH NMS

The appliance provides standard SNMP interface to industry proven NMSs like IBM Tivoli, HP OpenView etc.



## Sensors

Power Sensors
D.G Set - In Operation
D.G Set - Failed to Start
D.G Set - Low Fuel
AirCon Failure
AC Appliance Current (Amperes)
UPS Battery (DC Volts)
Environmental Sensors
Door / Intrusion
Temperature (Celsius)
Smoke / Fire
Water / Flood
Controls
AC Appliance On/Off
Sensors Enable / Disable

## POWER MONITORING AND CONTROL

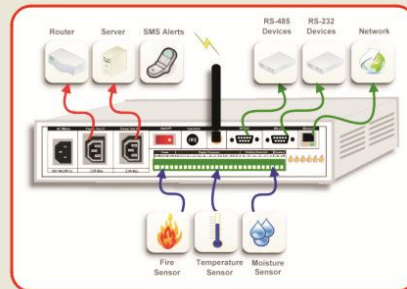
Data centers and remote sites often need to monitor power supply interruptions and switch over status. This is crucial for any site because without proper power management, no IT equipment can sustain its intended function. Some of the parameters are:

- Mains power monitoring, presence, voltage, current etc.
- UPS monitoring, battery status etc.
- DG Set monitoring
- Fuel tank(s) monitoring
- ATS panel, switch over status etc.
- Intelligent power sockets which monitor status as well as current through each socket.

## ENVIRONMENT MONITORING

Environment plays a vital role in the reliable operation of sensitive sites. Some of the parameters are:

- Temperature monitoring
- Flood monitoring
- Fire/smoke monitoring
- Intended or unintended entrances
- Humidity



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<http://www.hypass.com>  
[info@hypass.com](mailto:info@hypass.com)

