VigilBox
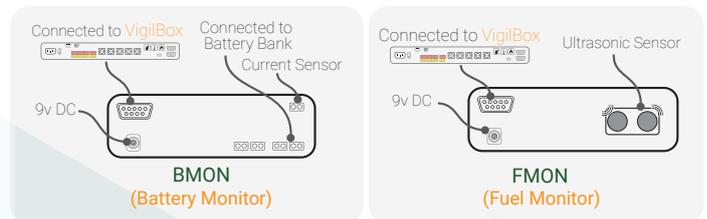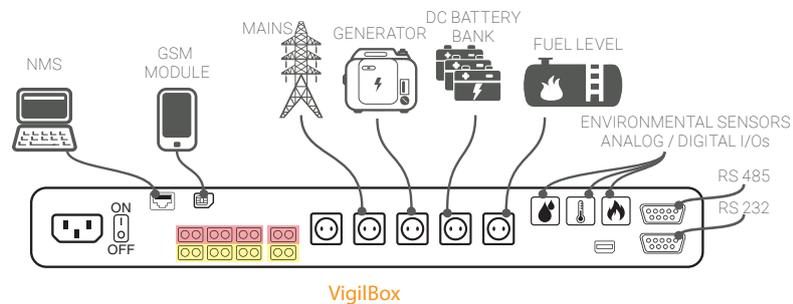
Monitoring and management solution for environmental and power conditions
Provides early warnings before critical events turn into disaster

SMART ENVIRONMENT MONITORING

VigilBox monitors critical environmental conditions, such as smoke, temperature, humidity, liquid water presence, motion, intrusion and vibration etc. When a sensor reading crosses the configurable threshold, VigilBox notifies via email, LEDs, alarm beacon, mobile phone or a browser based monitoring dashboard.

VigilBox

BMON
(Battery Monitor)

FMON
(Fuel Monitor)

FEATURES

- Supports various kinds of sensors including but not limited to: temperature, humidity, smoke, intrusion, moisture, air conditioner, diesel generator set, commercial mains power, fuel

- Monitors power supplies: Commercial AC power, battery banks, rectifiers, backup generators, UPS systems

- Broadcasts / pushes alarm signals with customized input parameters

- Power consumption of the VigilBox device is less than 60W - overall system power consumption depends on number of sensors as well as types of sensors installed

- VigilBox AirCon control mechanism helps maintain the required temperature on the site to run the system smoothly, providing high reliability and low cost air-conditioning.

- Optional passive PoE (Power Over Ethernet)

- Output Solid State Relays (SSR) for control of external devices

- Multiple Digital & Analog I/Os. (modular design supports additional alarms/IOs, if required)
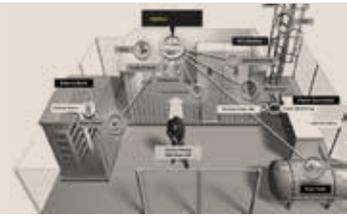
- SMS Alerts (Optional)

SPECIFICATIONS

- 220VAC 50Hz Mains 24/7 operation

- Operates at - 48VDC from rectifier panels Operating temperature -10 to 55ºC

- Standard wall-mount casing, (1U Rack Mount casing also available)

- Integrates with various NMS's readily available or with customized NMS

- Web based interface for easy configuration and monitoring

- LCD interface for quick on-site alarm status view of all connected sensors (optional)

- Supported Multiple Protocols: e.g. SNMP V1/V2c, DHCP, HTTP, TFTF, RS 232, RS 485, MQTT, etc.

- Various media support including Ethernet, GSM, E1, 2G/3G, CDMA, etc.

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STANDARD SENSORS DETAIL

All the sensors are installed by deploying appropriate transducers at the remote monitoring location and then transmitted to the VigilBox device using standard UTP cable for termination. The transducers comply with industrial standards and some are OEM designed and have the capability to monitor real time data or set user defined thresholds to trigger alarms for certain parameters.

Standard sensors supported include:

S.No.	Alarm Type	Parts/Make	Origin	Output Type
1	Fire/Smoke	Honeywell	USA	Digital
2	Temperature/Humidity	Aosong Electronics	TAIWAN	Digital
3	Water/Flood sensor	NationalSemi	USA	Digital
4	Rectifier battery bank voltage	Atmel Corp.	USA / UK	Analog
5	Fuel level Sensor	Multicom (Ultrasonic)	USA	Analog
6	Door Sensor	Fbele	HONG KONG	Digital
7	Motion/Intrusion Sensor	Ledent, USA	USA	Digital
8	Mains Voltage (AC)	Yhdc/Atmel	USA/CHINA	Analog
9	Mains Current	Yhdc/Atmel	USA/CHINA	Analog
10	Generator Voltage (AC)	Yhdc/Atmel	USA/CHINA	Analog
11	Generator Current	Yhdc/Atmel	USA/CHINA	Analog
12	DG set output voltage (VAC)	Atmel Corp/Yhdc	USA/CHINA	Analog
13	DG set battery voltage	Atmel Corp/Yhdc	USA/CHINA	Analog
14	Air Con. Power	Crydom/Atmel	USA/CHINA	Digital

NMS (NETWORK MONITORING SYSTEM)

VigilBox is based on the Nagios open-source network monitoring system. **VigilBox** enables organizations to identify and resolve ICT infrastructure problems before they affect critical business processes. Designed with scalability and flexibility in mind, VigilBox gives an instant awareness of mission-critical remote infrastructure preventing future issues before they impact business.

Customizable Software

VigilBox is powered with an open hardware and software frameworks and comes with the fully customizable software that can be enhanced as per the customer's requirements. All the sensors connected with the system can be viewed in a unified way and real-time status is displayed at all the times. Intuitive graphic controls give a bird's eye view of the system and help understand the system operating conditions quickly.

The system is fully configurable and provides the flexibility to add functionality and control sensors from a remote location.

VigilBox Dashboard

Nagios enables to:

- Plan for infrastructure upgrades before outdated systems cause failures
- Respond to issues at the first sign of a problem
- Automatically fix problems when they are detected
- Coordinate technical team responses
- Ensure organization's SLAs are being met
- Ensure IT infrastructure outages have a minimal effect on organization's bottom line
- Monitor entire infrastructure and business processes

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