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InterSeptor Pro

Environmental Monitoring and Alert System for Data Centres & Racks

Feature Overview
• Supports up to 24 x Temperature/Humidity Sensors
• Supports up to 48 x Additional Environmental Alarm Sensors
• Voice, SMS, Email, SNMP Alerts
• Web Browser Interface

### Preventing Data Centre Disaster
Crucial to any successful business continuity strategy is the implementation of an effective monitoring and alerting system. Air-conditioning failure, water ingress, fire, power failures and physical security breaches are just a few examples of the many potential problems that seriously threaten the integrity of network hardware and data.

In situations where rooms are unmanned for any length of time, especially at weekends and overnight, these problems can, if left unattended, result in significant network downtime and cost.

The InterSeptor Pro provides an advanced, yet uncomplicated solution to Data Centre room / rack monitoring and early-warning alarm notification. Environmental conditions can be monitored and logged, alarm thresholds configured, and automated early-warning alerts delivered to key IT personnel via telephone voice messages, SMS, email, web browser and SNMP traps. An Alarm Beacon/Sounder option is also available for on-site visual and audible alerts if required.

Flexibility, Scaleability for Maximum Return on Investment
The InterSeptor Pro is available in 3 models, equipped with 8, 16 or 24 environmental ports. Each interSeptor Pro environmental port can monitor a temperature/humidity probe, and from that probe a further 2 x alarm sensors can be monitored. The design of the interSeptor Pro therefore provides superb scaleability and flexibility, with the 24-port unit able to monitor up to 24 x temperature/humidity sensors and up to 48 alarm sensors.

Key Features

- 3 versions: 8-port, 16-port, 24-port
- Remote temperature/humidity monitoring across ethernet network (all temperature/humidity sensors supplied)
- Provision to connect up to 48 optional Go-Probe sensors (water, smoke, security, power etc.)
- Monitoring via web browser, Telnet, SNMP network management system
- Email, SNMP alerts
- Automated Voice and SMS alerts via Alert Centre
- Alarm schedule facility to enable alerts to be sent only when required
- Extensive on-board data logging and graphing
- Relay outputs for automated crisis management

Advanced Features to Meet Changing Data Centre Requirements
The InterSeptor Pro is simple to install, and remarkably easy to use. The device can be monitored using a web browser, Telnet or Network Management System using SNMP.

The InterSeptor Pro's powerful feature set also allows for control of rack doors and other on-site facilities remotely and via an optional USB keypad.

Automatic switching/control of associated local devices during crisis conditions is also possible, as is extensive logging of data centre conditions for pro-active analysis and fault-finding.

The InterSeptor Pro uses Cat5 cable to connect between it's RJ45 environmental ports and temperature/humidity probes. This makes it extremely easy to locate all sensors where needed and re-locate if necessary as required.
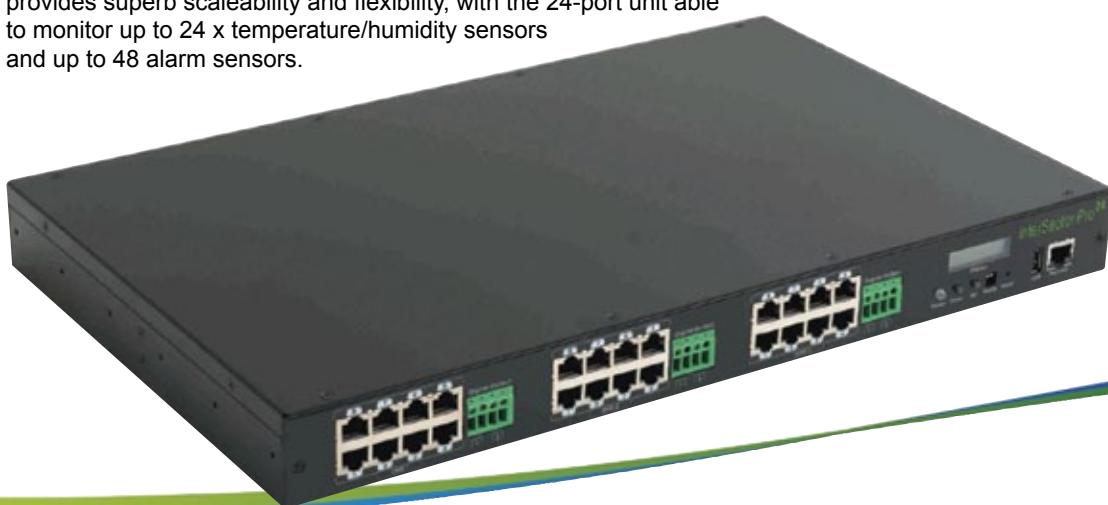
InterSeptor Pro - Multiple Rack and Data Centre Monitoring

Configuration

IP configuration can initially carried out via the front panel LCD using the menu buttons. Full configuration of temperature and humidity high/low threshold settings, polling and logging options, alerting options, etc. can then be carried out quickly and easily via a web browser.

Monitoring

Monitoring of the InterSeptor Pro can be carried out over the internet using a web browser or via a Network Management System using SNMP.
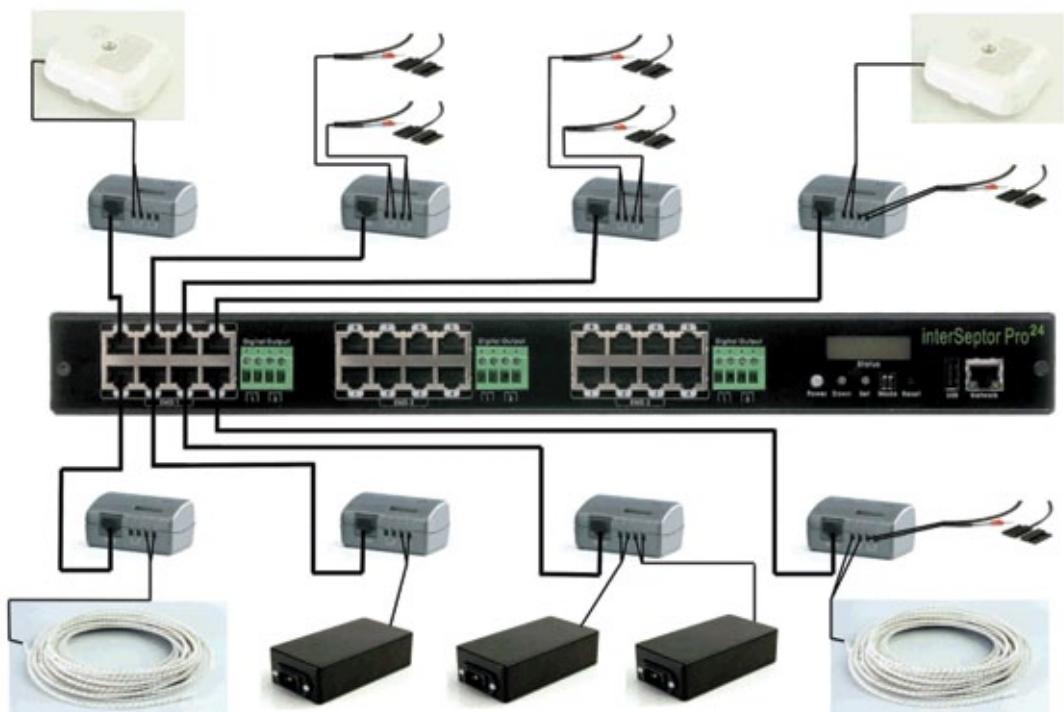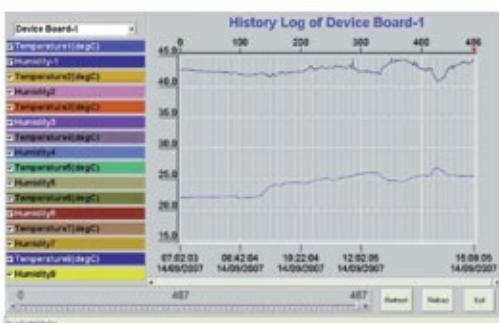
Alerts

Email and SNMP alerts can be triggered to provide early warning of environmental alarm conditions. In addition, Voice alerts to mobile/landline, and SMS alerts can be activated in conjunction with the automated Alert Centre facility. Alert Centre can provide alarm notification to up to 6 personnel in an escalation sequence to ensure alerts can be managed efficiently. Voice and SMS alerts are provided free of-charge in the UK for one year, with a small annual subscription payable thereafter.

Logging

InterSeptor Pro has extensive on-board logging capabilities to ensure alarm conditions can be successfully tracked, early identification of potential problems carried out, and trend analysis conducted as required. Log files can be delivered to key personnel daily in .csv format or downloaded as required.

Graphing

The InterSeptor Pro's on-board Java graphing feature enables log files to be analysed instantly via a web browser for trend analysis and problem solving.

Installation

The InterSeptor Pro has been designed for ease of installation and use. Multiple temperature/humidity sensors are provided out-of-the-box to ensure individual rack and room monitoring can begin immediately. Customers can choose to implement their own Cat5 (straight-through) cabling between the sensors and the InterSeptor Pro RJ45 ports, or alternatively purchase one of the optional Sensor Cabling Packs.

InterSeptor Pro Sensors

Temperature & Humidity Sensor

Each interSeptor Pro is supplied with the required number of temperature/humidity sensors for the version purchased ie. 8, 16, 24. Two optional Go-Probe alarm sensors can also be connected to each temperature/humidity probe from the range of sensors detailed below. High/low warning and critical alarm thresholds can easily be configured via the InterSeptor Pro's web browser interface.

Water Detector

The InterSeptor Pro water detector uses an advanced leak detection cable to sense the presence of water along its length. The water detector can be supplied with either 3 or 18m of Sensor cable and 4m of interface cable.

Security Sensor

The InterSeptor Pro security sensor is a magnetic reed switch that can be used to detect the opening of doors, racks, windows and cupboards. This sensor is provided with either 4 or 18m of interface cable.

Smoke Detector

The InterSeptor Pro smoke detector is a mains powered, ionisation based smoke detection unit that can be positioned to monitor for early signs of fire, providing both an InterSeptor alarm and an audible alarm upon detection. This sensor is provided with either a 4m or 18m interface cable.

Voltage Sensor

The InterSeptor Pro voltage sensor can be used to monitor a spare power outlet for outages and interruptions. As soon as the power to the outlet is lost the InterSeptor will provide an alarm. This sensor is provided with either a 4m or 18m interface cable.

Alert Centre

Using an environmental monitoring system is a step forward in terms of providing useful information about in-room and in-rack conditions. But critical to the value of the system is its ability to deliver early-warning alerts, and in particular, voice alerts, to key personnel 24/7.

The Alert Centre works in conjunction with the InterSeptor Pro to provide Voice and SMS alerts to upto 6 personnel.

Key Features:

- Voice, SMS & Emails delivered to up to 6 personnel

- Escalation procedure to assist alarm management

- Online access/management of personnel contact details, etc.

- Online event log history – track and alert from start to finish (eg. Who responded to an alarm and when)

- Annual subscription free for first year with interSeptor Pro (UK only)
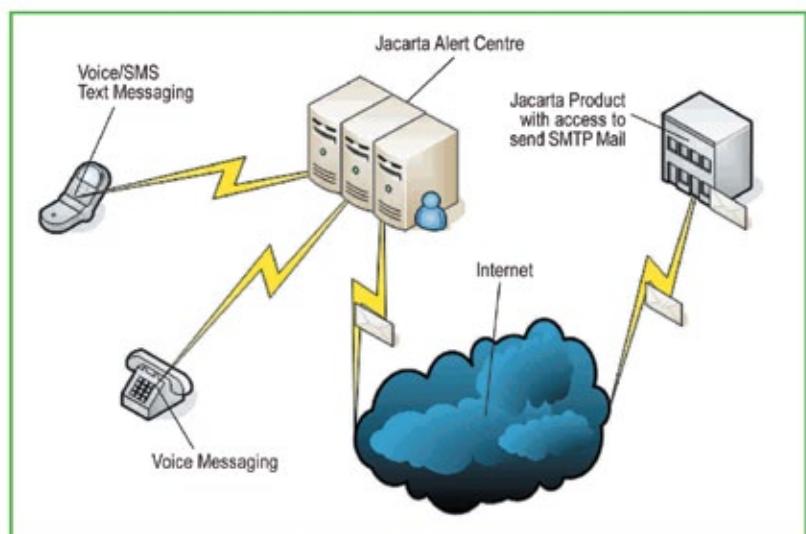
Additional Optional Equipment for InterSeptorPro

- **Dry contact/universal interface cables**
  for connection to on-site facilities
  (eg. Air-conditioning, generator, UPS, security
  alarm panel, fire alarm panel, etc.)

- **Alarm Beacon/Sounder**
  for local audible/visual alerts

- **USB Keypad**
  for manual operation of relay outputs
  (for access control, etc.)

- **InterSeptor Pro Cable Pack**
  including various lengths of Cat5 cable to
  connect between the interSeptor Pro and
  the temperature/humidity sensors .

Customer Service

Technical support is available for the interSeptor Pro directly from a member of the technical department via email and telephone free-of-charge. We aim to respond to any enquiry as quickly and efficiently as possible with minimum customer inconvenience.

Customers

Environmental and Power Monitoring products are being successfully used worldwide by thousands of leading organisations and government departments.

These customers include:

BBC, Bloomberg, BP, Next, Ikea, Sainsburys, ASDA, BMW, Volkswagen, University of Oxford, Standard Chartered Bank, Yell, etc.

Warranty

InterSeptor Pro is supplied with a 2-year swap-out warranty in the unlikely event of a problem.

InterSeptor Pro - Specifications

	8-Port	16-Port	24-Port
Sensors:			
Temperature/Humidity:	8	16	24
Go-Probe Sensor Ports:	16	32	48
Relay Outputs:	2	4	6
Optional Equipment:			
Go-Probe Sensors:	16(max)	32(max)	48(max)
Weight (kg):	3.4	3.5	3.6

- **Network:** 10/100Mbps Ethernet (auto-sense)
- **Configuration:** Telnet, browser, LCD
- **Monitoring:** Browser, NMS, Telnet
- **Dimensions (cm):** 4.4(h) x 43.5(w) x 27.1(d)
- **Power:** 230VAC
- **Status Indicators:** Status LCD, Power LED, 10/100 LED
- **Firmware Upgrade:** Via Network connection
- **System Security:** IP-based filtering and password protection

- **Alerts:** Email (12 recipients)
  SNMP traps (8 receivers)
  Voice/SMS via Alert Centre
- **Alert config:** 1.Temperature/humidity:
  High/low warning and critical
  thresholds – user configurable

  2.Go-Probe sensors:
  Normally open/closed or high/low active – user configurable
- **Logging:** Historical event and status logs
- **Log interval:** User-configurable
- **Graphs:** Real-time and historical
- **Go-Probe Sensors:** - 18m of Water sensor cable
  - Security
  - Smoke
  - Power
  - Universal dry contact sensor
    (normally open/closed or high/low)
- **Warranty:** 2 years

All specifications may be subject to change without notice