

## PYXIS DCIM Lite

### Data Centre Monitoring and Management Software

PYXIS is a powerful monitoring application that enables Data Centre Managers to collect, record, display and analyse critical performance data from IT infrastructure and facilities equipment. PYXIS has been designed to offer many of the key benefits of a full-blown Data Centre Infrastructure Management (DCIM) solution but at a fraction of the cost.

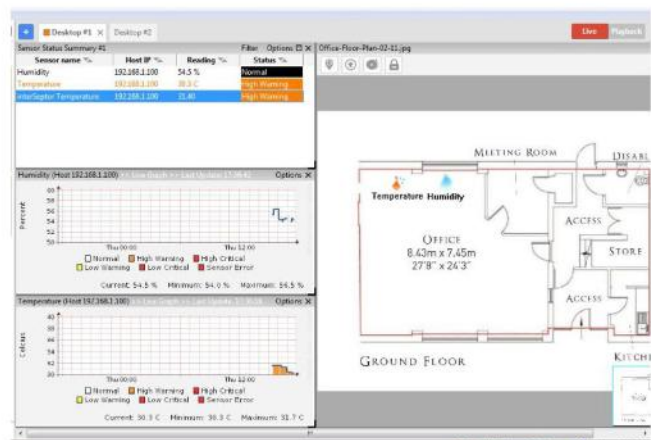
#### Key Features

- Central monitoring of IT infrastructure via SNMP and Modbus TCP
- Visual map-based monitoring and control
- Quick and easy 'drill-down' alarm analysis
- Flexible alert management
- Alerts via Email, SMS & automated telephone voice calls (using optional modem), audio visual alarm beacon and automated SNMPset commands
- IP camera integration
- Optional SQL database integration for use with large numbers of connected sensors (recommended for 1000+ sensors)

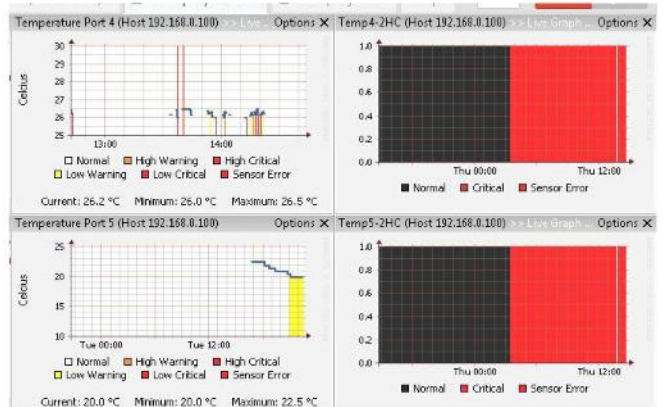
#### Monitoring & Analysis

PYXIS uses SNMP and/or Modbus TCP to monitor...

- UPS Systems
- BMS Systems
- Air-conditioning Units
- Generators and Rectifiers
- Environmental Conditions
- Power Usage
- IT Equipment Availability



PYXIS' custom desktop showing map view, sensor graphing and sensor status information



PYXIS' custom desktop showing sensor graphing and historical sensor status information

PYXIS can also integrate seamlessly with ONVIF-compatible IP Cameras (for surveillance monitoring) and with the Jakarta iMeter Monitoring System (for power and environmental monitoring).

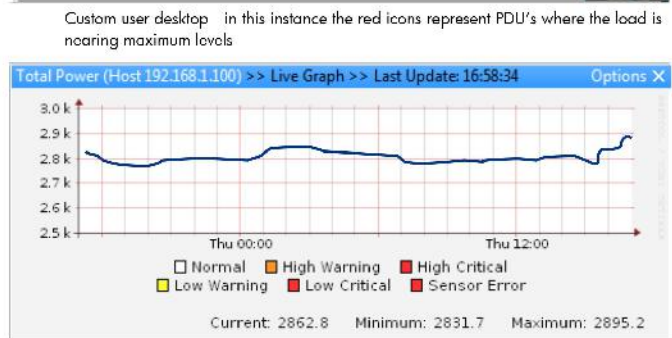
PYXIS' flexible and intuitive Dashboard interface provides users with the ability to quickly and easily identify the status of connected equipment, thus providing the information needed to monitor and manage business-critical systems effectively. The fully customisable 'desktop' can be configured to display preferred combinations of maps, graphs and IP camera feeds to give users the ability to see an overview of their network infrastructure from a single screen. Multiple 'desktops' can be created to focus on particular locations or areas of the infrastructure.

## Monitoring & Analysis (cont.)

Icons representing connected hardware can be easily created and positioned to provide an 'image' of infrastructure layout that is representative of your actual data centre or server room environment enabling you to quickly locate problems. For example, icons highlighted red may represent a non-responsive switch or a PDU where the load has exceeded a user-defined threshold.

A host of analysis tools are available within PYXIS to enable users to track key trends and to help identify where improvements in operational efficiency can be achieved. By using these tools you can...

- Calculate PUE figures
- Identify environmental trends
- Calculate network uptime
- Analyse response time to potential problems
- Appraise hardware reliability
- Analyse room and rack activity within monitored locations



Power usage graphing using data collected from network device

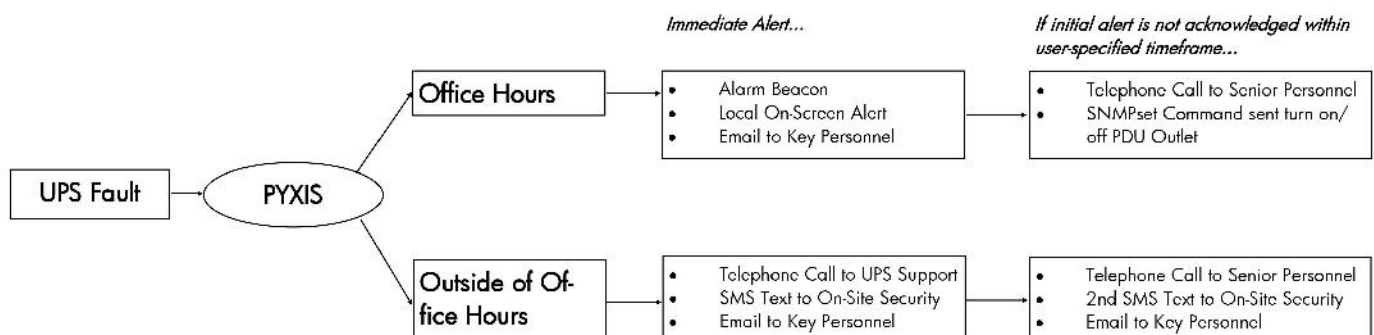
## PYXIS Alerting

PYXIS contains a powerful alert-management interface that enables notification routing to be tailored to all types of organisational requirements. PYXIS can alert users to problems via:

- Local on-screen alerts
- Email (including sending images captured by connected IP Cameras)
- Alarm Beacon
- Automatic SNMPset commands
- SMS text messages & automated telephone voice calls (using optional modem)

The alerting matrix allows customised alerts to be sent to key personnel only when required. For example, if a UPS problem is experienced outside of office hours an alert can be sent directly to on-call staff. Users can also define custom escalation procedures helping to ensure that any threats to network infrastructure are dealt with before any serious problems are caused.

## Example Alerting Configuration





## Integration with ENVIROMUX Environment Monitoring System

The ENVIROMUX Environment Monitoring System is a network-based environmental monitoring devices capable of integration with PYXIS via SNMP. When installed in critical IT environments they monitor and alert users to potential threats such as air-conditioning failure, water ingress, security breaches, high or low humidity levels and fire, etc.

By integrating the ENVIROMUX Environment Monitoring System with PYXIS users can combine the reliable and comprehensive monitoring provided by the device with the extensive management, analysis and alerting tools offered within the PYXIS software package.

Benefits of this integration include:

- Centrally monitor multiple ENVIROMUX devices from a single dashboard
- Centralise alerting procedures to make management and configuration quick and simple
- Receive alerts to environmental problems via Email, SMS & automated telephone voice calls (using optional modem) and audio visual alarm beacon
- Analyse the relationship between environmental conditions and network uptime
- Add environmental condition information to map views in order to quickly identify and react to potential threats

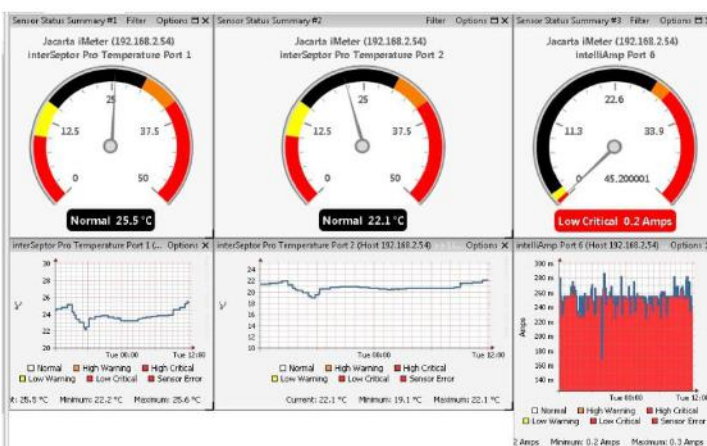
### ENVIROMUX-MICRO-TRHP

The ENVIROMUX-MICRO-TRHP is the ideal device for providing temperature/ humidity monitoring in single rooms or individual racks. Supplied with a temperature/humidity sensor as standard, the ENVIROMUX-MICRO-TRHP can be installed in minutes to start providing additional protection for your IT environments.



### ENVIROMUX-2D/5D/16D series

The ENVIROMUX-2D/5D/16D series can be used to monitor larger data centres and multiple racks. As low as 2 temperature/humidity sensors and up to 16 temperature /humidity sensors, 5 digital input type sensors up to 8 digital input type sensors (water, smoke, security, power failure, etc) still scalable, can be monitored from a single device.



Data collected from ENVIROMUX Environment Monitoring System devices can be displayed within PYXIS in a number of different ways.

As well as adding sensors to map views it is also possible to view real-time sensor information using dials and historical data in graph format.

## Licensing

PYXIS licensing is based on a 'per sensor-point' basis. Each sensor-point represents one piece of information that is collected by the software. Licenses for IP Cameras are issued on a 'per-camera' basis and are not interchangeable with standard sensor-point licenses.

For example, to ping 30 network switches, 30 sensor points would be required. To collect 2 pieces of information (such as low battery and on battery) from 10 UPS a total of 20 sensor points will be needed.

Description	Part Number
PYXIS to support up to 49 sensor-points	PYX049
PYXIS to support up to 99 sensor-points	PYX099
PYXIS to support up to 199 sensor-points	PYX199
PYXIS to support up to 299 sensor-points	PYX299
PYXIS to support up to 499 sensor-points	PYX499
PYXIS to support up to 999 sensor-points	PYX999
PYXIS SQL License	PYXSQL
PYXIS Camera License	PYXCAM
Licenses for requirements exceeding 1000 sensor points are also available	

## Free 30-day Trial

PYXIS can be downloaded for a free 30-day trial. The trial software is unrestricted and should users wish to purchase the software when the license expires a license key will be generated so the software can remain in use without interruption.

If you are considering implementing DCIM software within your critical IT environment, then PYXIS, with its streamlined and highly-focused feature set, may be the ideal solution.

## Specifications

### PYXIS Server - Minimum Specifications

CPU:	Intel® Xeon®, 2.0 GHz or higher (Dual-Core recommended)
Network:	Ethernet (1Gbit recommended)
Graphics Card:	Onboard GFX, AGP, or PCI-Express, minimum 1024 x 768, 16-bit colors
Hard Disk Type:	Minimum 100 Gbyte free (depending on logging or recording options selected)
Operating System:	Microsoft Windows XP Professional (32 or 64 bit), Windows Server 2003 (32 bit) or Windows 7 (32 or 64 bit)

### PYXIS Client - Minimum Specifications

RAM:	Minimum 1GB (2GB+ recommended)
Network:	Ethernet (1Gbit recommended)
Graphics Card:	Onboard GFX, AGP, or PCI-Express, minimum 1024 x 768, 16-bit colors
Hard Disk Type:	EIDE, PATA, SATA, SCSI, SAS (7200 RPM or faster)
Operating System:	Microsoft Windows XP Professional (32 or 64 bit), Windows Server 2003 (32 bit) or Windows 7 (32 or 64 bit)

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