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SMARTset IIoT

ONE CONNECTED INTELLIGENT VIEW

Manage your Technical Estate's new and existing infrastructure from one connected intelligent view.

SMARTset will enable you to easily connect, configure, present and analyse data from equipment throughout your estate to increase capacity, reduce risk and save money. And you don't have to buy it ...you can pay as you use it.



SMARTset FEATURES INCLUDE:

- The ability to access monitored information from power and environmental metrics to machine specific performance analysis utilising HTML5 standards.
- Dashboards to view and trend any sensor value, physical or derived, whatever the complexity or origin of the data, into friendly and individually manageable interface of gauges, graphs and heat maps.
- In-browser data analytics and complex 'virtual' transducers to enable real-time calculation of past, present and future transducer values.
- Seamless communication with the low cost SMARTset Sensor Network or connectivity with SNMP, BACnet, Modbus, MQTT, SigFox, EnOcean, Nest, RF-CODE, UPnP and HTTP(S) devices. The built-in auto-discovery features makes device connection simple and intuitive.
- A sophisticated reporting engine enabling complex, visual reports scheduled for delivery via email, SMS or virtual file systems like FTP to be viewed on screen. Stock reports are included or create new reports delivered in Excel, CSV and PDF.
- An advanced visual programming Alarms & Control sub-system allowing remote control and alarming pre-sets, trends and complex derived conditions.
- Availability of data and alarm status via SNMP, a RESTful API and Modbus Slave plus third party widgets and interfaces through its hot-plugin sub-system.
- Optimisation features with rich real-time thermal and power analysis tools, delivered through the browser. Tools include thermal mapping, CFD simulation and 'what if' analysis.

SMARTset Modules

CUSTOMISE EASILY • CONFIGURE QUICKLY • PAY OVER TIME

SMARTset MONITOR

SMART MONITORING USING DYNAMIC DASHBOARDS

- The heart of the SMARTset platform as it performs data harvesting and visualisation of sensor data from both physical and non-physical transducers.
- Data is gathered and/or sent through SNMP, BACnet, Modbus, MQTT, EnOcean, Nest, RF-CODE, SigFox, HTTP(S) channels periodically or on-demand and is visualised in personalised dashboards via graphs, charts, gauges and heat maps.
- Sensor values are aggregated and computed into virtual transducers and included into calculations to drive further visualisations, reports, alarms etc.

SMARTset ALARMS & CONTROLS

ALERT AND CONTROL EQUIPMENT REMOTELY

- Sophisticated alarm conditions can be modelled including; trend analysis, noise detection and machine condition detection. Alarms are distributable using the same channels as reports.
- Controls are defined in a visual, drag/drop programming editor that allows definable, rich trigger conditions e.g changing set-points.

SMARTset REPORTS

CREATE, SCHEDULE AND DISTRIBUTE REPORTS

- Standard/sample reports out-of-the-box.
- The reporting system enables users to create, schedule and distribute reports in HTML, PDF and Excel. Reports can be scheduled to run at specific times and events or interactively.
- Produce rich and sophisticated documents that can be distributed via multiple channels; SMS, email, email-link and Virtual File System (FTP/FTPS/SFTP, WebDAV, SMB)

SMARTset OPTIMISATION

REAL-TIME CFD AND ENVIRONMENTAL ANALYSIS

- The power of CFD in a graphical and numeric format helps users plan for growth, common failures and other 'what if' scenarios for physical power and cooling capacity, plus build resilience before expensive problems occur.
- A tuning storyboard lets HVAC professionals harmonise cooling performance through time-line comparison and historical playback.

SMARTset INTEGRATION

EXTEND SMARTset WITH RICH CONTENT

- SMARTset plugin subsystem allows users to create their own extensions to the system. Plugin developers have access to all major internal aspects of SMARTset allowing them to add visualisations, new data handlers and extra functionality.
- Out-of-the-box integrations include Asset Management (Nlyte & Patch Manager).

SMARTset SENSORS

ACCURATE READINGS OF ENVIRONMENTAL CONDITIONS

- SMARTset Sensor Network is a combination of low cost wireless and wired transducers that replace or complement existing third party networks.

SYSTEM REQUIREMENTS

Cloud, server & device solution accessed by:

- PC/Mac
- iPad/iPhone
- Android Phone/Tablet

The only requirement is that the client device runs a standards compatible browser:

- IE 10+
- Safari 7+
- FireFox 15+
- Chrome 28+

For an on premise solution, the server must be a minimum of:

- Any 32/64bit Java 1.8 platform (Linux/UNIX, Windows 20xx)
- Twin Core 1.70GHz CPU
- 2 Gb RAM
- 1 Gigabit Ethernet
- 250GBbDisk

Supported database:

- MySQL 5.6+
- MariaDB 10+
- PostgreSQL 9+
- SQL Server 2000+
- H2 (built-in)



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