



AIR COOL CONDITIONING AND TECHNICAL SERVICES (PTY) LTD
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You need to find it to fix it.

Get a deeper look at your operating conditions.
 Make the right decisions on the fly. Minimize downtime and reduce your costs.

SMART- Data Centres

SMART is an integrated environmental monitoring solution that allows data centre managers to gain a better understanding of their key operating conditions such as: temperature, airflow, pressure differential and power consumption. Designed to operate at the circuit level, managers can differentiate the effects of power consumption, by device and make key decisions on how to optimize their operations, reduce power consumption, and minimize downtime.

Utilizing a proprietary web based platform, SMART delivers real-time environmental information and identifies opportunities for improvement. Our solution enables the operator to monitor and validate the implementation of energy saving measures. In addition, SMART provides a user-managed alert system, so that data centre managers can set the out-of-bounds conditions to be monitored with alarms that can be sent to any mobile device.

SMART also provides temperature and power assessments to baseline current operating conditions and identify areas of overheating and cooling. Where applicable, Infitrak will select and apply for governments rebates.

Key solution benefits:

- ✓ Real-time multi-level thermal imaging
- ✓ Measure real-time PUE
- ✓ 24/7 secure on-line access
- ✓ Be alerted for out-of-range conditions by text, email or call
- ✓ Base-line energy utilization
- ✓ View multiple locations from one central login
- ✓ Real-time floor mapping

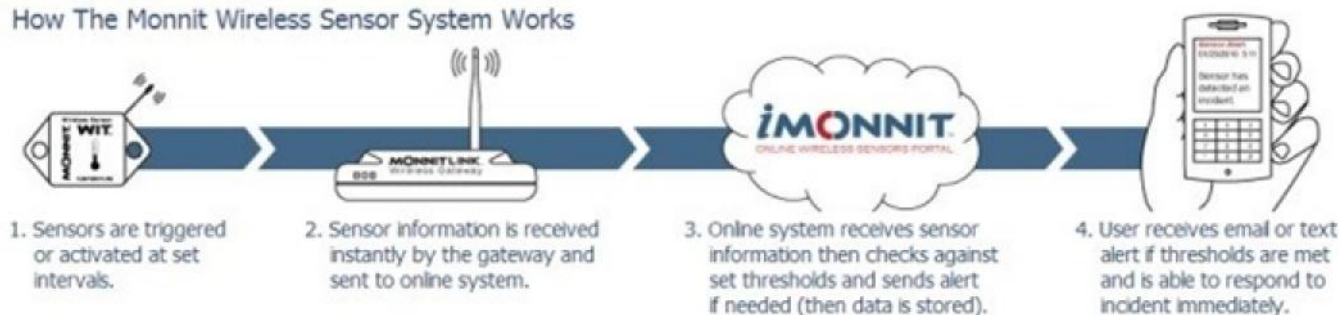
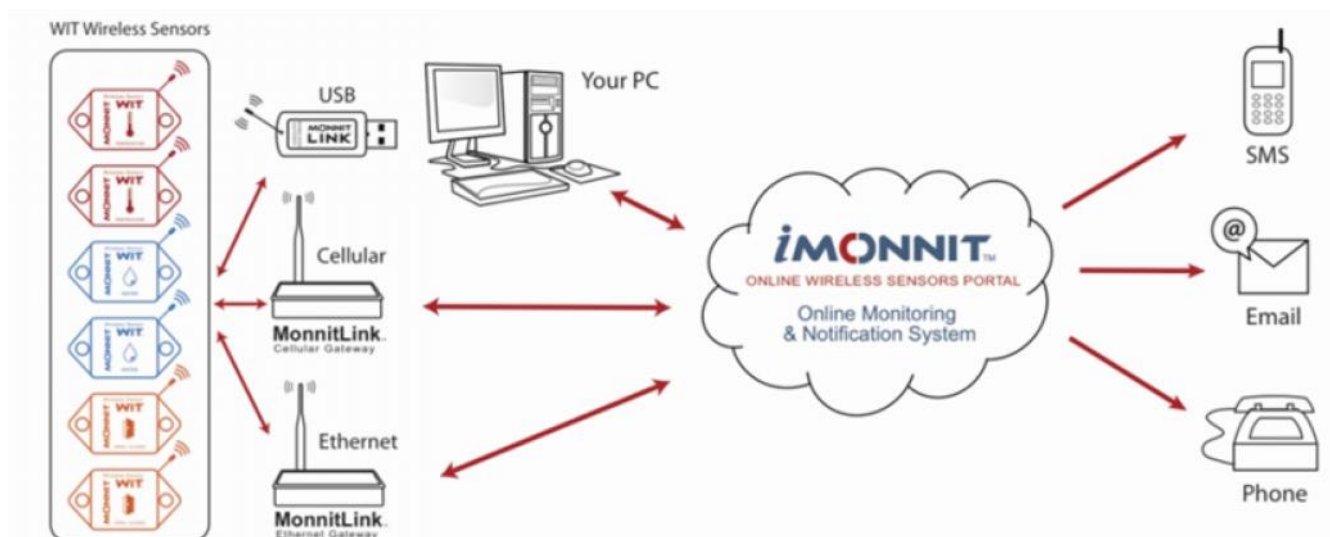




How it works ✓



How The Monnit Wireless Sensor System Works





Reports And Graphs

- Understand power consumption and the costs and carbon footprint associated
- Historical data is available from a simple click of the mouse
- Graph and chart 3-phase power distribution
- Identify data centre efficiencies improvement opportunities



Sensor Mapping

- Real time visibility of the impact of data centre changes
- An integrated view of the data centres environment
- Easily identify out of range events including their locations
- Use mapping tool to identify areas of over and under cooling
- Help prevent air mixing



Alerts and Audit Trail (Alarm Set up)

- Notify multiple people of out of range events via email, SMS text or phone call
- Tiered alerts provide enhanced notification of out-of-range events
- Document alerts and corrective actions
- Set up daytime or after hour alerts





Products



1 Wireless Gateways



- Use up to 100 wireless sensors with one Monnit gateway
- Different versions available
 - Cellular Gateway (CDMA or GSM)
 - Ethernet Gateway
 - USB Gateway
 - Serial MODBUS Gateway
- Cellular gateways are available with 24 hour battery backup
- 250 - 300 ft. device range*

2 Wireless Sensors



- Over 40 sensor types available
- 250 - 300 ft. device range*
- 1-5+ years battery life**



3 Monitoring Software

iMONNIT™ ONLINE WIRELESS SENSORS PORTAL

Basic online sensor monitoring and notifications are included with all wireless sensors for free. Advanced sensor monitoring is available with iMonnit Premiere for a low annual cost.

iMonnit Premiere Features;

- Unlimited user accounts
- Sensor check-ins down to 10 minutes
- Unlimited sensor data storage
- Sensor mapping tools
- Advanced sensor configurations





Software
Overview



Monnit Wireless Sensor Network Monitoring - Feature Comparison				
Feature	iMonnit™ Basic	iMonnit™ Premiere	iMonnit Express™	iMonnit Enterprise™
	Online Sensor Monitoring	Advanced Online Sensor Monitoring	Standalone PC Software	Self Hosted Enterprise Software
	FREE			
Basic Sensor Configurations <i>Name Sensor, Set Heartbeat, Select Unit of Measurement*</i>	✓	✓	✓	✓
Advanced Sensor Configurations <i>Recovery Attempts, Inactivity Alerts, Sub Heartbeat Assessments*, Aware State*</i>		✓	Available in higher versions of the software.	✓
Sensor Data History Reports	✓	✓	✓	✓
Sensor Data Visual Charts	✓	✓	✓	✓
Sensor Data Export	✓	✓	✓	✓
Sensor Calibration*	✓	✓	✓	✓
Monnit Link USB Gateway Support	✓	✓	✓	✓
Monnit Link Ethernet & Cell Gateway Support	✓	✓	✓	✓
Works With Monnit Wi-Fi (MoWi) Sensors	✓	✓	✓	✓
Accessible Anywhere via Internet	✓	✓		✓
Does Not Require Internet Connection			✓	✓
History of Sent Alerts	✓	✓	✓	✓
Alerts and Notifications to Multiple Recipients		✓		✓
Sensor Configuration by Group	✓	✓	✓	✓
Permission Based Access Control and Reporting		✓		✓
Notifications via Email and SMS Text	✓	✓	Email Only	✓
On Screen Alerts and Notifications	✓	✓	✓	✓
Sensor Mapping Tool (Visual Placement)		✓		✓
Minimum Heartbeat (Sensor Check-In)	2 Hours	10 Minutes	1 Second	1 Second
# of Networks Supported	1	20	1	Unlimited
# of Sensors Supported	500 Per Network	500 Per Network	Up to 50***	500 Per Network
# of Gateways Supported	100	1,000	10	Unlimited
# of Users Supported	1	Unlimited	1	Unlimited
Sensor History Storage	45 Days	Unlimited	5,000 Records	Unlimited
Monnit Customer Support	Online Only	Online Only	Online Only	Online / Phone / Optional On-Site



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