Datacenter Infrastructure Management & Monitoring

DATA SHEET

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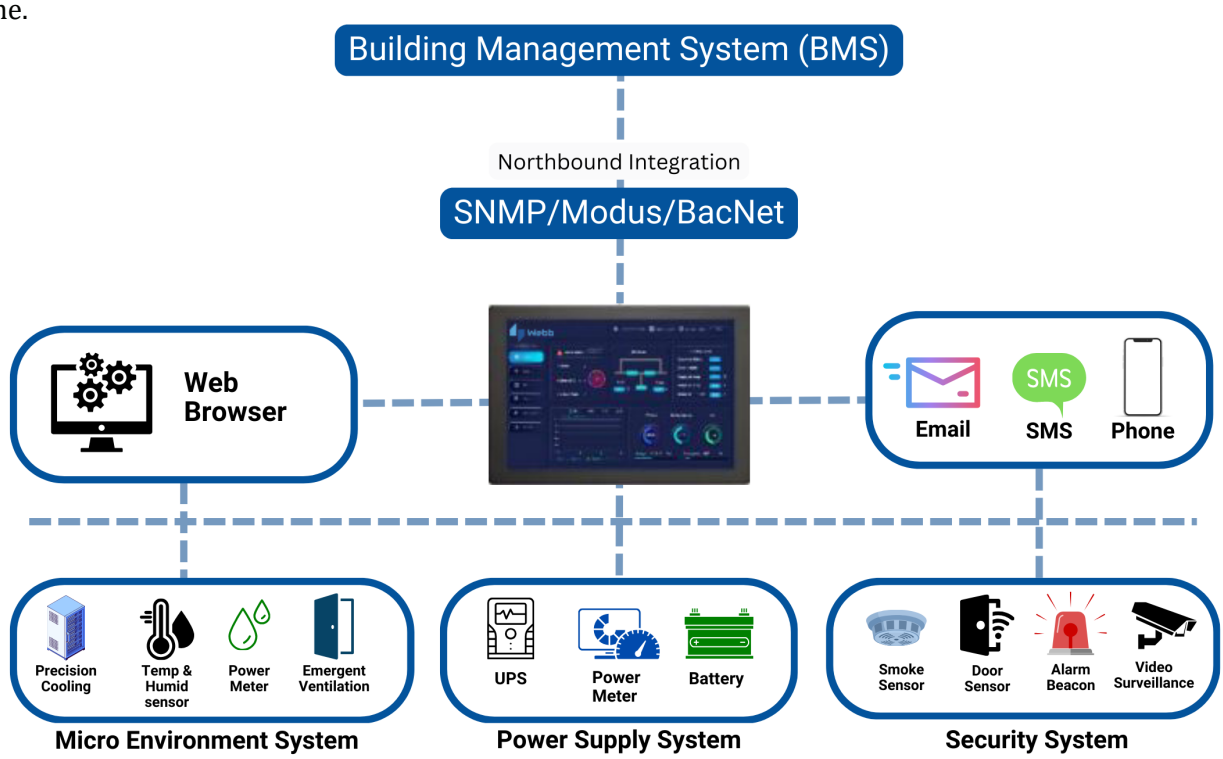
Comprehensive Monitoring Solution

Leveraging cutting-edge sensors and sophisticated data acquisition technology, our solutions offer unparalleled real-time insights into critical aspects of data center infrastructure management and environmental conditions. With a versatile array of sensors, from monitoring cooling and power usage to tracking temperature, humidity, and water leaks and smoke detection, our systems deliver precise and instantaneous data you can rely on. ensuring rapid responses to emerging issues through instant user alerts.

A standout feature of Webb's infrastructure management and monitoring solution is its seamless integration with building management systems (BMS), facilitating remote management and monitoring. This integration optimises operations, providing centralised control over data center infrastructure from any location, at any time.



- One host - supporting data collection, data visualisation, and logical actions.
- Provides full information on power, cooling, temperature, humidity, door status, leaks, and more.
- Compatibility with industry-standard protocols including Modbus-RTU, Modbus-TCP, and SNMP.
- Seamless integration with centralised BMS systems for efficient data and alarm reporting via SNMP or Modbus-TCP.
- Multiple ways to view and control: local display or web interface.
- Alarm notification by email, SMS or phone call.
- Doors and top panels automatically open during fire events.
- Cooling system automatically shuts down during fire events.

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Rack Mount Monitoring Host

Webb's rack/wall mounted monitoring host is a compact and efficient solution for real-time monitoring and management of critical infrastructure in your data centre. Featuring a complete suite of monitoring capabilities such as temperature, humidity, power consumption, and more, this host delivers comprehensive insights into the health and performance of your data center infrastructure.

Features

- Part number: T.MDC.EM.MHR.99
- 1U height, supports multiple types of equipment, such as UPS, cooling, smoke, water, sensors, and more
- Supports multiple protocol types from equipment, such as Modbus RTU, Modbus TCP, and SNMP
- Can be integrated into central BMS by SNMP or Modbus TCP
- Built-in HDMI port to connect to an external display
- Seamless integration into video and access control systems

Monitoring host - Rack mount type

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Technical specifications

- Input voltage: 12VDC~24VDC
- Input current: 3.0A
- Display panel: External touch display
- Web portal: Built in
- Monitoring Ports for BMS: Modbus TCP, SNMP
- I/O Ports:
  - RS232: 1 x RS232
  - RS485: 5 x RS485
  - Digital input: 6 x DI
  - Digital output: 2 x DO
  - HDMI: 1 x HDMI
  - Network: 1 x 10/100M
  - USB: 1 x USB2.0
- Operating temperature: 40°C to 85°C
- Operating humidity: 5%~95%RH, non condensing
- Dimensions: 481 x 244 x 44.5mm
- Net weight: 3.4kg

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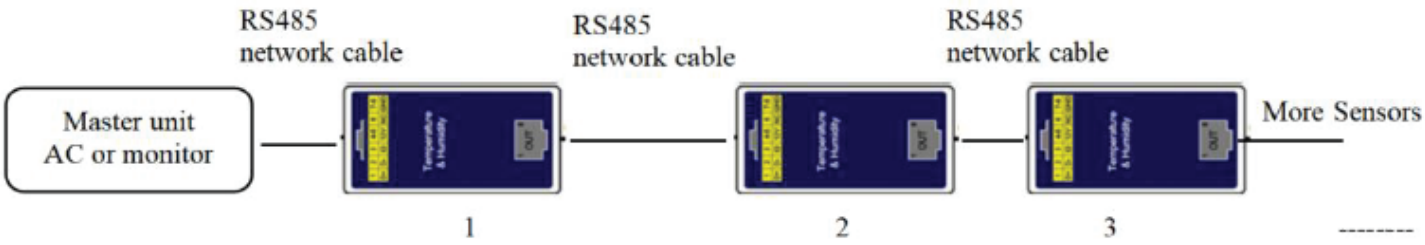
Temperature and Humidity Sensor

Webb's Temperature and Humidity Sensor is a precision-engineered solution, designed for accurate monitoring in critical environments such as data centres, smart cabinets, IDC rooms, and laboratories. This sensor utilizes an effective semiconductor sensor design, ensuring high precision and reliability. Its innovative self-calibration function enhances accuracy over time, providing consistent and dependable monitoring results.

Features

- Part number: T.MDC.EM.S.TH.R4
- Highly accurate, self-correcting, and consistent monitoring
- Facilitates RJ45 connection for automatic address allocation
- Can be easily installed with magnets or wall mounts
- RS485 interface with Modbus protocol for remote monitoring



Temperature and humidity sensor, RS-485 type

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Technical specifications

- Input power: 10 - 15VDC, rated 12VDC
- Temperature measuring range: -20 °C to 80°C with <±0.3°C accuracy, tested at 25°C
- Humidity measuring range: 0% ~ 100%RH with <±0.3% RH accuracy, tested at 25°C
- Physical interface: RS485
- Tandem nodes: Recommended 64 nodes (Max. 256 nodes)
- Transmission distance: 1200m(connect with STP network cable)
- Address range: 1~254, through RS485 setting, can realize automatic allocation
- Communication protocol: Modbus -RTU
- Baud rate: default setting 9600bps. 2400/4800/9600 can be selected
- Operating temperature: -20°C to 80°C
- Operating humidity: 0%~100% RH
- Dimensions: 80 x 48 x 23mm
- Net weight: 0.05kg

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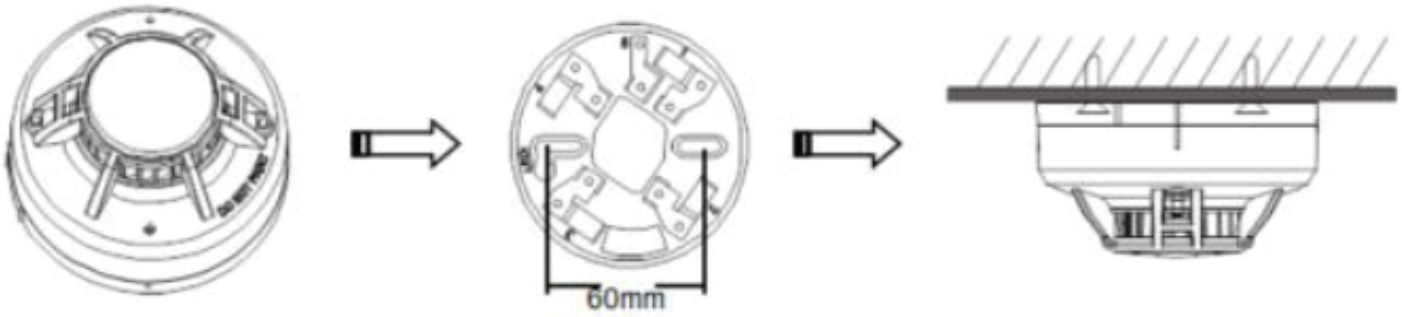
Smoke of Fire Sensor

Webb's Smoke Sensors are a reliable and efficient solution for detecting smoke in a variety of environments. It operates with two-wire connections, making it compatible with traditional alarm systems without requiring additional wiring. This simplifies installation and ensures seamless integration into existing setups.
During normal monitoring, the sensor emits a red light, indicating its operational status, while consuming minimal power. When smoke levels exceed the threshold, signalling an alarm state, the red light remains on, and the sensors current rises rapidly, providing a clear indication of the alarm condition.

Features

- Part number: T.MDC.EM.S.SF
- The detector features an automatic dust accumulation compensation function, which reduces the impact of dust on the detector's sensitivity
- The alarm can easily be reset only by a momentary power interruption



Smoke sensor for fire sensing, dry contact type with alarm light

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Technical specifications

- Input voltage: 9VDC~28VDC, Non polarized
- Standby current: 60uA @ 24 VDC
- Max. Alarm current: 30mA @ 24 VDC (LED on)
- Adjustable sensitivity: 0.15~0.3dB/m
- Operating temperature: 10°C~ 50°C
- Operating humidity: 10%~93%RH, Non condensing
- Dimensions: Φ103 x 55mm (installed in base)
- Net weight: 0.155kg

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Positioning Leaking Sensor

Webb's Leak Detection Sensor is an advanced solution designed to provide early detection of leaks in a variety of environments. Whether in data centres, laboratories, server rooms, or industrial facilities, our sensor offers reliable protection against water damage.

Features

- Part number: T.MDC.EM.S.WDC.5
- The controller provides DC/DC power isolation to prevent interference from power ground lines, ensuring high stability
- The detection lines are flame-resistant, dustproof, and short-circuit-resistant, ensuring no false alarms

Water flooding sensor, none positioning type, 5 meters leak detection cable

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Detection controller technical specifications

- Input voltage: 12VDC, 10 to 15VDC
- Working current: ≤0.1A
- Detection sensitivity: 8 levels of sensitivity can be set
- Response time: <2s
- Relay output: 1 way, contact DC30V 1A
- Dimensions: 88 x 37 x 59mm
- Net weight: 0.07kg

Detection cable technical specifications

- Cable material: Imported conductive polymer and insulation polymer, flame retardant materials
- Protection: Built in dustproof, anti short circuit protective net
- Flame retardant grade: 94V-0
- Detection medium: normal water, air conditioning water, fire water, rainwater, etc.
- Sensitivity: <3cm water leakage line can be sensed
- Response time: <1s
- Installation method: Non position
- Drying time: 15 seconds after the cable leaves the water, gently shake the cable water droplets automatically fall off
- Cleaning method: Wipe off with a clean cloth
- Life: 10 years
- Operating temperature: 10°C~ 50°C
- Operating humidity: 10%~90%RH
- Dimensions: 5.5mm²
- Cable length: 5m
- Net weight: 0.35kg

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Industrial Touch Display Panel

Webb's range of Industrial Touch Displays are available in 10-inch, 21-inch, and 43-inch sizes, designed specifically for use in data centres. These displays offer robust performance and reliable touch functionality, catering to the demanding requirements of modern data centre environments.

Features

- Available in three models T.MDC.EM.DP.10, T.MDC.EM.DP.21, T.MDC.EM.DP.43
- Suitable for 1U type host
- 10 point capacitive touch and a lightning fast 5ms response time
- Built to endure, featuring an aluminium alloy frame and a sheet metal rear shell for enhanced durability
- Corrosion-resistant and boasting an IP65 waterproof surface, this display thrives in challenging environments

Industrial touch display panel

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Technical specifications

Part number	T.MDC.EM.DP.10	T.MDC.EM.DP.21	T.MDC.EM.DP.43
Screen type	LED capacitive touchscreen	LED capacitive touchscreen	LED capacitive touchscreen
IP rating	Front IP65 Whole body IPX3	Front IP65 Whole body IPX3	Front IP65 Whole body IPX3
Size	10.1" (16:10)	21.5" (16:9)	43" (16:9)
Display area	218 x 136.5mm	477.6 x 269.1mm	944.1 x 532.3mm
Optimal resolution	Default 1280 x 800P (Optional 1920 x 1200P)	1920 x 1080P	Default 1920 x 1080P (Optional 3480 x 2160P)
Brightness	≥250cd/m²	≥250cd/m²	≥300cd/m²
Contrast	≥ 1000: 1	≥ 3000: 1	≥ 1200: 1
Touch response time	< 5ms	< 5ms	< 5ms
Touchpoints	10-point touch	10-point touch	10-point touch
Visual angle	Full view 85°	Full view 85°	Full view 85°
Communication mode	Full-speed USB 2.0	Full-speed USB 2.0	Full-speed USB 2.0
Drive	Drive-free, plug-and-play	Drive-free, plug-and-play	Drive-free, plug-and-play
Input Power	110-240VAC 50/60Hz	110-240VAC 50/60Hz	110-240VAC 50/60Hz
Output power	DC 12V 3A	DC 12V 5A	DC 12V 3A
I/O Ports			
3.5mm Audio	1 x 3.5mm Audio	1 x 3.5mm Audio	1 x 3.5mm Audio
VGA	1 x VGA (15-pin D-Sub)	1 x VGA (15-pin D-Sub)	1 x VGA (15-pin D-Sub)
VDI	N/A	1 x VDI	1 x VDI
HDMI	1 x HDMI	1 x HDMI	1 x HDMI
USB2.0	1 x USB2.0	1 x USB2.0	1 x USB2.0
Operating temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C
Operating humidity	10%-80%RH	10%-80%RH	10%-80%RH
Operating altitude	Below 5000m	Below 5000m	Below 5000m
Dimensions	255 x 175 x 31.5mm	518 x 314 x 40.2mm	985 x 573 x 51.9mm
Net weight	0.9 kg	4.9 kg	17.6kg

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