# sensorProbe2+

SP2+ is a complete redesign of the world's best-selling environmental monitoring platform, with all new hardware and software.

We've combined the low cost and simplicity of use of the SP2 along with many advanced features of our securityProbe platform.

- IP based, supports all major comunications protocols.

- Thermal Map combines 4 sensors into one sensor port on the SP2+.

- Use the Thermal Map sensors to find hot spots in your data center.

- Send SNMP Trap, Email Notifications and more....

- Supports 4 intelligent Sensors, up to 20 Dry Contact Inputs.

- Compatible with the RFID Swing Handle Cabinet Lock

AKCess Pro Server
Free with all AKCP hardware
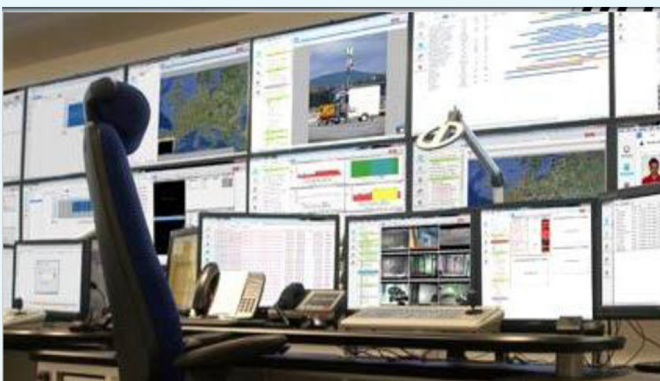
Take control of your data center power distribution, sensor monitoring, access control and security cameras. All from a single piece of software

Create custom maps of data rooms. Overlay power outlets, environmental sensors, access points and security camers

Deploy a hierarchy of notifications using SMS. Email or relay actions to trigger corrective action. Monitor cabinet security and record video events of unauthorized cabinet entry attempts and more..
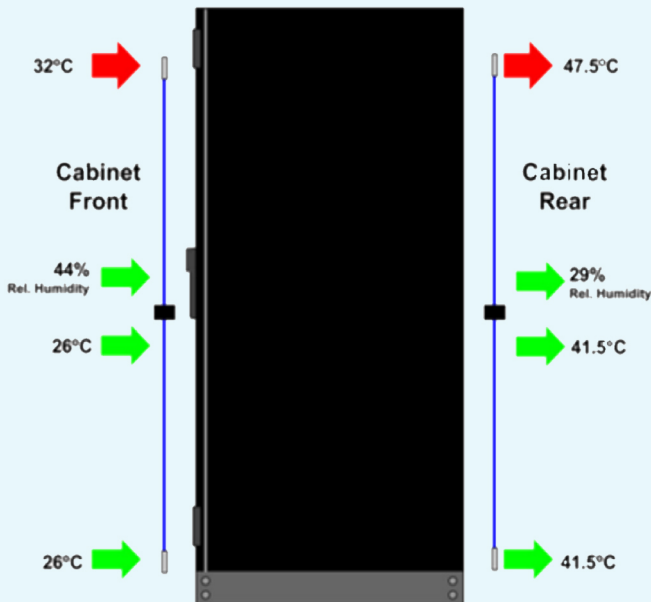
Environmental monitoring*

- Monitor up to 4 rack air inlets using the Thermal Map Sensors, to identify cabinet hotspots and potential energy savings.

- Monitor temperature, humidity, air flow and more..

- Control cabinet access with RFID Swing Handle Cabinet Locks.

- Features SNMPv3, HTTPS, VPN and Encrypted Email.

Sensor Monitoring
Monitor temperature, air flow, humidity, dry contacts and more.

Power
Monitor server rack AC or DC power and react quickly to power outages.

Cabinet Access Control
Restrict access to front and rear server cabinet doors.

Water Leak Detection
Detect water leaks before they cause damage to equipment.

* sensors sold seperately

Thermal Map Sensors

High inlet air temperature indicating hot spots in the server room.
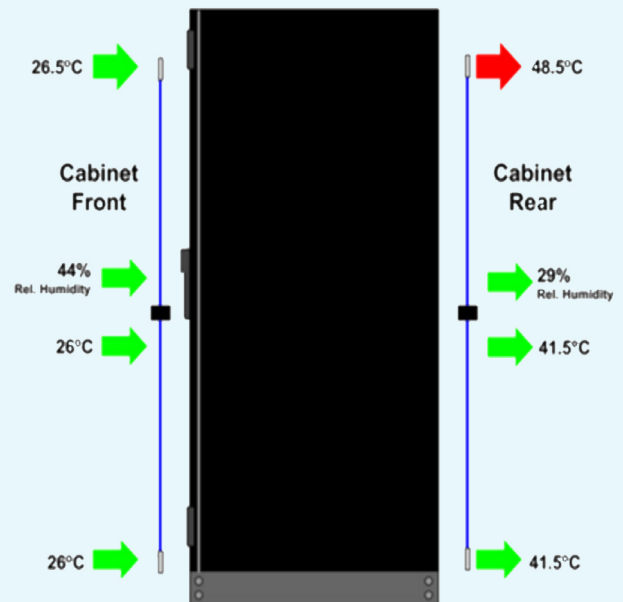
Thermal Map showing a critical alert status on the exit air temperature.

The Thermal Map combines 4 sensors into one sensor port on the SP2+. Specially designed to monitor the air entering and leaving computer racks.
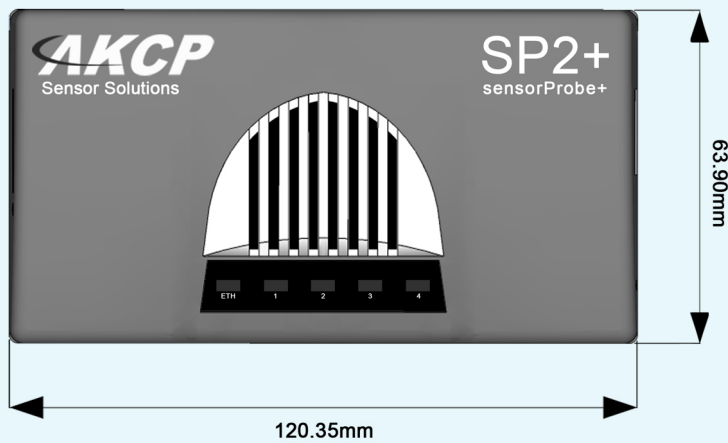
Standard features:

- Software to eliminate false positives.

- 100MB Full Duplex Ethernet.

- 4x intelligent sensor ports.

- No data loss during network outages.

- Full SNMP compliance, integrates with existing network management systems.

- Notification suites for automating corrective actions.

- Trigger events based on sensor status. High Critical, High Warning, Low Warning.

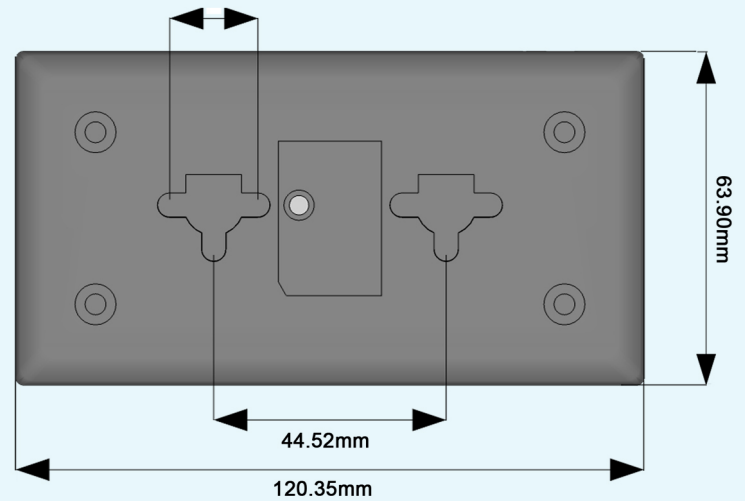- Seamless integration with AKCP's AKCess Pro Server Central Management Software.

Optional features:

- Integrated 3G GSM cellular data modem with external antenna.

- Option to change 1 sensor port to Expansion port for connecting AKCP expansion units such as E-Sensor 8 and E-Opto16.

- Software unlock for SNMP V3.

- Software unlock for virtual sensors.

- Software unlock for VPN.

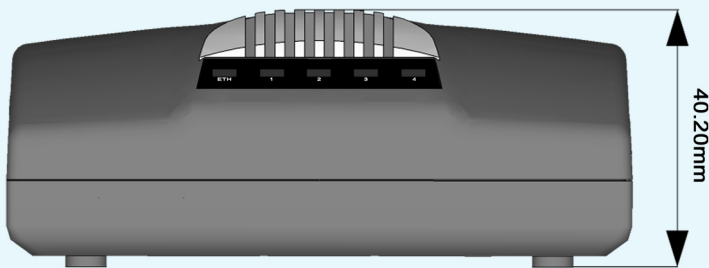- 5 Dry Contact inputs or outputs per sensor port.
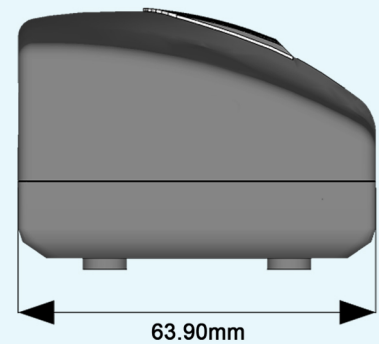
Technical Drawing
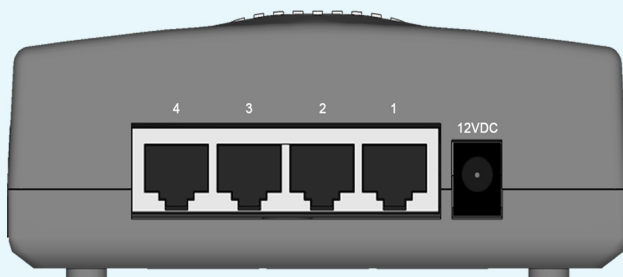
AKCP
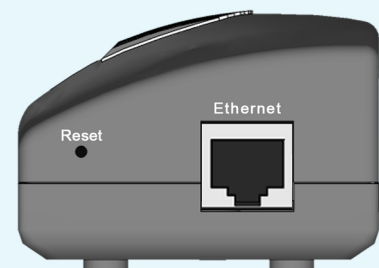Sensor Solutions

SP2+
sensorProbe+

ETH 1 2 3 4

63.90mm

120.35mm

Top

44.52mm

63.90mm

120.35mm

Bottom

ETH 1 2 3 4

40.20mm

Front

63.90mm

Left

4 3 2 1 12VDC

Rear

Reset   Ethernet

Right

Technical Drawing
(With GSM Cellular Modem)

16.90mm

67.90mm

63.90mm

120.35mm

Top

67.90mm

63.90mm

44.52mm

120.35mm

Bottom

40.20mm

Front

SIMCARD

63.90mm

67.90mm

Left

4   3   2   1   12VDC   GSM ANTENNA

Rear

Reset   Ethernet

Right
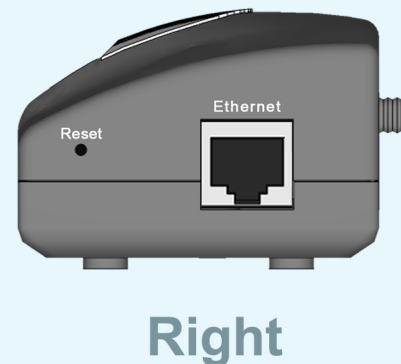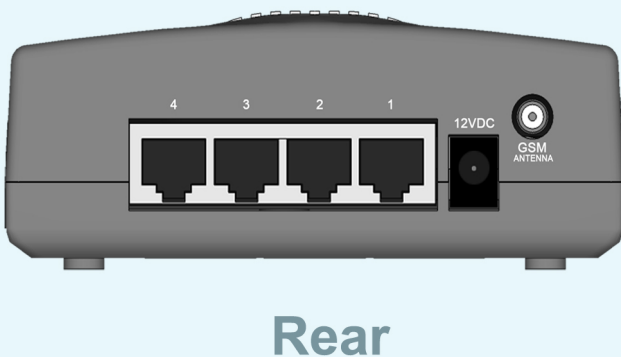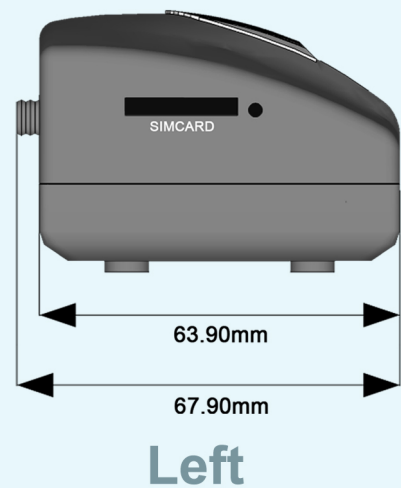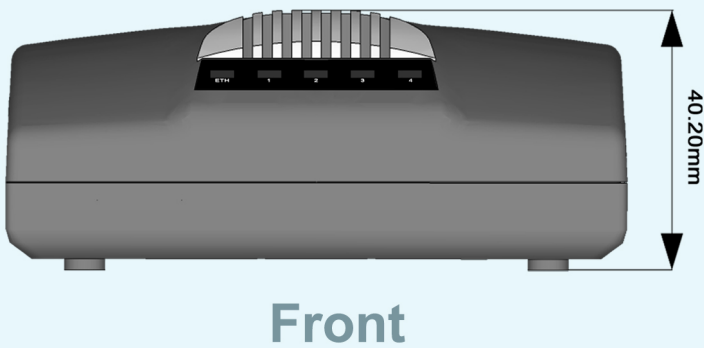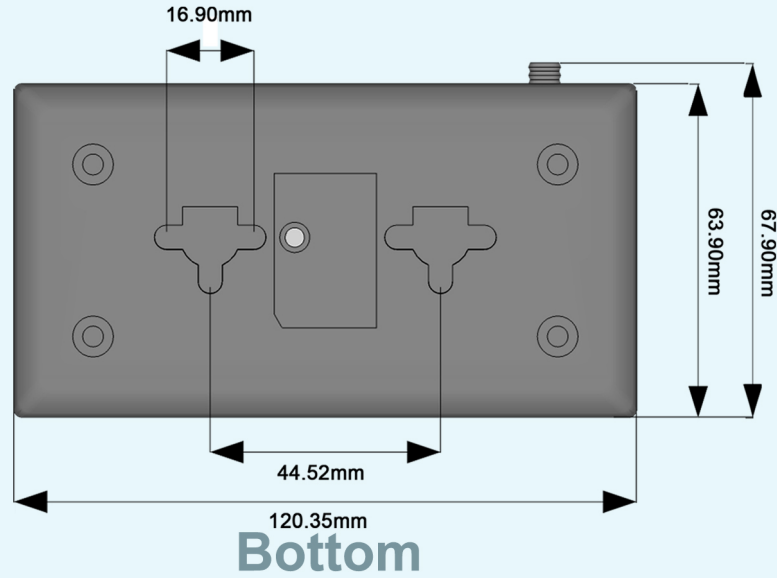
Technical Specifications

Dimension :	Size : 4.5" x 2.5" x 1.25" Weight : 0.3 Kg
RJ-45 :	4 RJ-45 Ports for connecting AKCess Pro Sensors Up to 20 Dry Contact Inputs Optional Rj-45 Expansion Port
Mounting :	0u rack-mount, or hanging Compatible with AKCP's DIN Clips
Power Requirements :	Voltage: 12 VDC, 2Amp Voltage: 12 VDC, 1Amp (for the basic version)
Status Indication :	LED indication for power LED for network connectivity LED for sensor online and threshold status
Components :	Manufuactured using highky integrated, low power surface mount technology to ensure long term reliability AKCP STM32F4 MCU 8 MB to 16 MB Flash Memory
Operating Environment :	Temperature : Min.-35° C - Max.80° C Humidity : Min. 20% - Max. 80% (Non-Condensing)
MTBF :	1,400,000 Hours
Inputs :	4x RJ-45 Sensor Ports for connecting AKCess Pro sensors* 1x RJ-45 Ethernet 10/100 *1 sensor port can be used as expansion port (on SP2+X version)
Outputs :	Configurable output signals (0VDC/5VDC) on any of the 4 RJ-45 sensor ports
Optional Expansion Capabilities :	See above *1 sensor port can be used as expansion port (on SP2+X version)
Maximum Number of Users :	10,000 users. 100 users default

About AKCP

AKCP established in the USA in 1981, created the market for networked temperature, environmental and power monitoring solutions. Today with over 100 employees and 130,000 installations, AKCP is the world's oldest and largest manufacturer of SNMP enabled networked sensors for the data center.