![AKCP logo](Est. USA 1981)

sensorProbe2+ (SP2+)

Cost Effective and Versatile Monitoring

SP2+ comes with 4x intelligent sensor ports that can be used to connect a wide range of AKCP sensors, as well as support for our new range of smart sensors such as thermal maps and LCD displays.

Options include an internal 4G cellular data modem with optional GPS antenna. If you have Modbus or Canbus devices that you wish to monitor, such as a generator, or other industrial equipment, the SP2+ can be ordered with an RS485 port option (SP2+E).

SP2+ Technical Specification

Dimension	Size 4.5" x 2.5" x 1.25" Weight 0.3 Kg
Network Interface	Standard 10/100 Mbps Full Duplex Ethernet RJ-45 Port
Mounting	0U rack-mountable Compatible with AKCP's DIN Rail Clips
Power Requirements	External 5.5V 3A Power Adapter Input Voltage and Current ratings : 100V~240V - 0.22A
Status Indication	LED indication for Power LED for network connectivity LED for sensor online and threshold status Internal Buzzer alarm
RJ-45	4 RJ-45 Sensor Ports for connecting AKCP Autosense Sensors Up to 20 Dry Contact Input and Output (0VDC/5VDC) Input Optional RJ-45 Expansion Port
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability. AKCP STM32F7 MCU 32MB Flash Memory
Operating Environment	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
MTBF	1,400,000 Hours based on field experience with sensorProbe units.
Inputs	4x RJ-45 Sensor Ports* for connecting AKCP sensors or swing handle cabinet locks 1x 10/100 Ethernet Port Optional 4G integrated cellular modem with external antenna (Optional GPS feature) * 1 sensor port can be used as expansion port or Modbus RS485 on SP2+E version (supports up to 4 CCU, E-Sensor8 or E-Opto16) Includes 5 free virtual sensors
Outputs	Configurable output signals (0VDC/5VDC) on any of the 4 RJ-45 sensor ports
Max Sensors	Maximum of 150 onlined sensors, including Expansion Units and virtual sensors.
Optional Expansion Capabilities	See above * 1 sensor port can be used as expansion port or Modbus RS485 (on SP2+E version)
Maximum Number of Access Control Users	500 Users 100 Users default
Licensing	
5 Dry Contact : DC5	5 dry contact input sensor (per port) 1 License equals 1 RJ45 port unlocked
SNMPv3 license : V3	SNMPv3 License unlocked on the sensorProbe+ unit. Ability to use SNMPv3 with virtual sensors or to Poll/Control the sensorProbe+ with 3rd party SNMP management software
Virtual Private Network (VPN) : VP	VPN - Connect to AKCPro Server from your base unit through VPN over Ethernet or cellular network.
Virtual Sensor pack : VS	Virtual sensor (pack of 5 sensors). Maximum of 80 virtual sensors. * ** Every SP2+ comes with 5 free virtual sensors
3rd Party PMS & Modbus : PM	3rd Party Modbus / PMS device. Up to 4 modbus devices with 15 sensors.* **
500 Access Control user database : UA	500 users for access control (SP+ series has 100 users as standard)
Important Notes	* the sensorProbe+ units can only have a total of 60 Modbus RS485 sensors (virtual sensor + modbus devices) ** the sensorProbe+ units can only have a total of 60 Modbus TCP/IP sensors (virtual sensor + modbus devices)

SP2+ Technical Drawing

SP2+ with Internal Modem