

## sensorProbe1+ (SP1+)

# Simple, Yet Powerful Monitoring



SP1+ comes equipped with 1x intelligent sensor input and 1x dry contact digital I/O a hard wired temperature sensor on 5ft cable, and PoE as standard. Connect any of AKCP's sensors, including cabinet thermal maps, and contactless current meter using the sensor splitter interface box.

All SP1+ devices come with SNMPV3 support. Additional security features can be unlocked such as support for IPV6, Radius and TACACS. Up to 80 virtual sensors monitor third party devices via SNMP or Modbus TCP/IP

### OPTIONS:

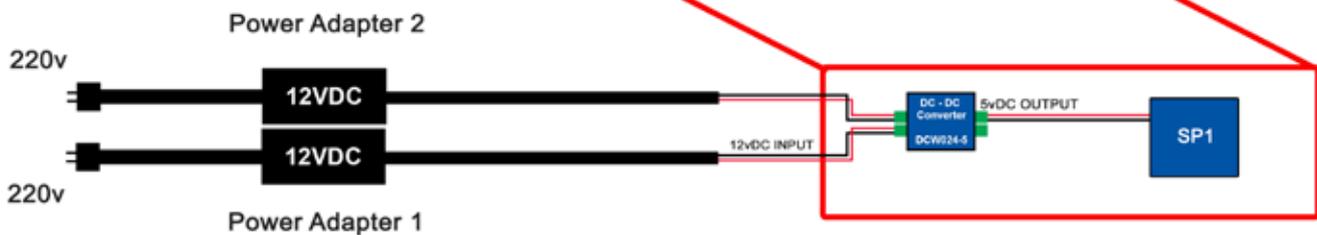
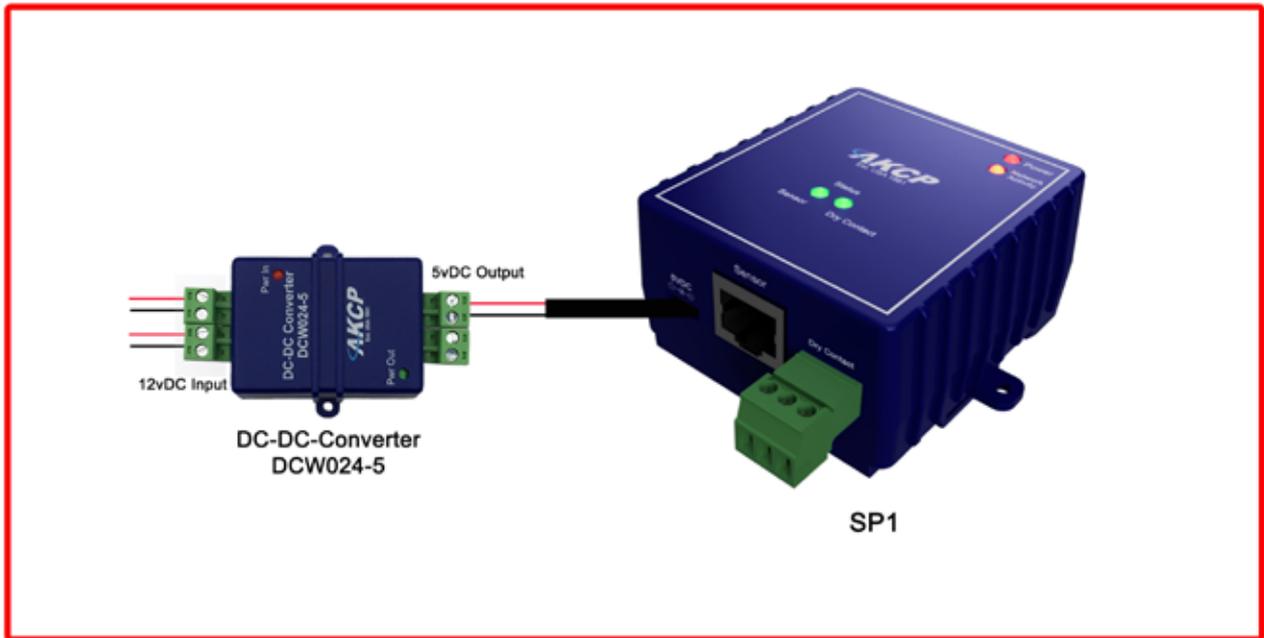
**5VDC USB power** - External USB power supply, used in combination with PoE as a redundant power input

**Modbus RS485** - Convert the dry contact I/O input to Modbus RS485.

**Mini Relay** - Convert the dry contact I/O to a mini relay

## SP1+ - Dual Power Inputs

SP1+ can be powered with dual inputs. PoE comes as standard, and an additional AC or DC source can provide primary power with PoE providing backup power. Or, in the absence of PoE dual inputs are available through our external DC-DC conversion box.



## SP1+ - Technical Specification

<b>Dimension</b>	Size 82 x 72 x 35 mm Weight 0.2 Kg
<b>Network Interface</b>	Standard 10/100 Mbps Full Duplex Ethernet RJ-45 Port
<b>Mounting</b>	Screw mounting Built in DIN Rail Clip and cable tie loops
<b>Power Requirements</b>	PoE IEEE 802.3af support Optional external 5.5V 3A Power Adapter Input Voltage and Current ratings : 100V~240V - 0.22A Optional external 12-24 or 40-60 VDC dual inputs
<b>Status Indication</b>	LED indication for Power LED for network connectivity LED for sensor online and threshold status LED for dry contact input status
<b>RJ-45</b>	1 RJ-45 Sensor Ports for connecting AKCP Autosense Sensors
<b>Components</b>	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
<b>Operating Environment</b>	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
<b>MTBF</b>	1,400,000 Hours based on field experience with sensorProbe units.
<b>Inputs</b>	1x RJ45 Sensor Port 1x Dry Contact I/O (0/5VDC) 1x 10/100 Ethernet Port 1x hard wired 5ft temperature sensor 5x free virtual sensors (additional unlocked via license)
<b>Outputs</b>	Configurable output signals (0VDC/5VDC) on any of the 4 RJ-45 sensor ports
<b>Max Sensors</b>	Maximum of 400 onlined sensors, including virtual sensors.
<b>Maximum Number of Access Control Users</b>	500 Users 100 Users default
<b>Supported Protocols</b>	Rsyslog MQTT / MQTTS SNMP V1/2 IPV6 RADIUS TACACS HTTPS Encrypted E-mail
<b>Licensing</b>	
<b>5 Dry Contact : DC5</b>	5 dry contact input sensor (per port) 1 License equals 1 RJ45 port unlocked
<b>Virtual Private Network (VPN) : VP</b>	VPN - Connect to AKCPro Server from your base unit through VPN over Ethernet or cellular network.
<b>Virtual Sensor pack : VS</b>	Virtual sensor (pack of 5 sensors). Maximum of 80 virtual sensors. * ** Every SP2+ comes with 5 free virtual sensors
<b>500 Access Control user database : UA</b>	500 users for access control (SP+ series has 100 users as standard)
<b>IPV6 : SP-IPV6</b>	Support for IPV6 network addresses
<b>Radius : RAD</b>	Radius user authentication server connection. TACACS authentication to Radius.

## SP1+ - Technical Drawing

