sensorProbe1+ (SP1+B)

Simple, Yet Powerful Monitoring

SP1+B 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 AKCP sensors such as temperature sensors, thermal maps and water leak detection.

The SP1+B comes with a basic set of software functions, which can be upgraded through a software license.

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.

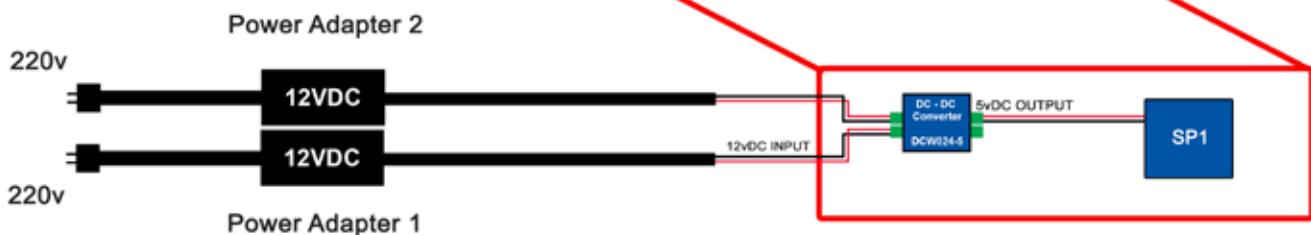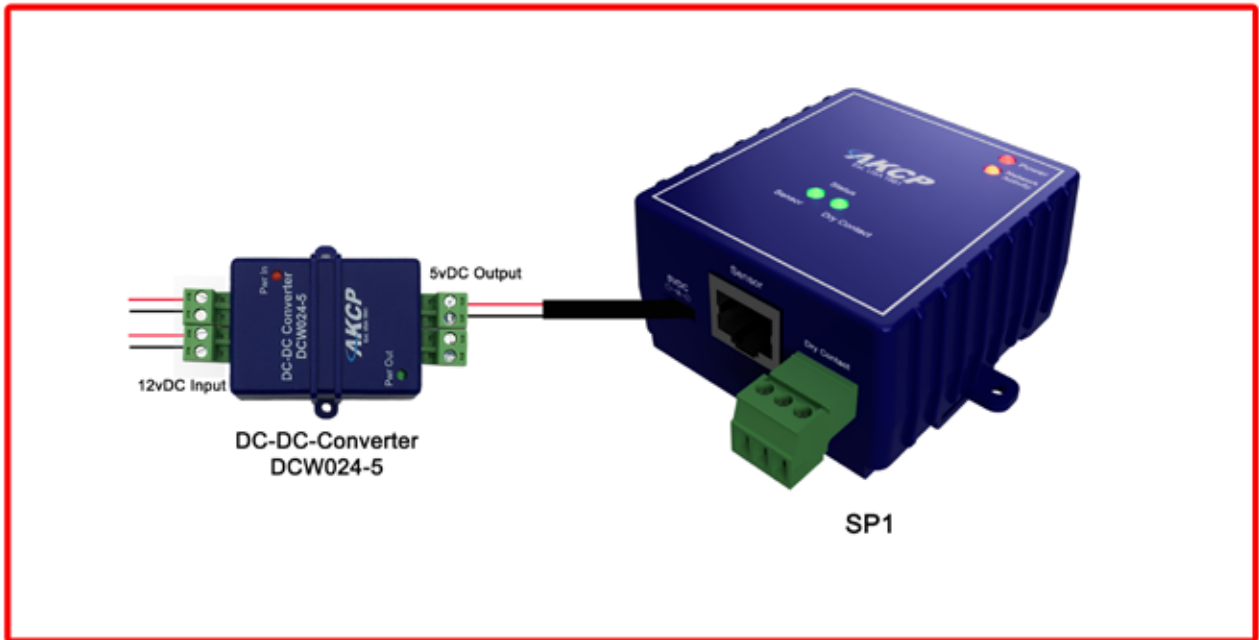**Mini Relay** - Convert the dry contact I/O to a mini relay

SP1+B - Basic and Professional

The below table shows the features included with the SP1+ Basic, and the benefits of upgrading to the Professional license.

SP1+	SP1+B	SP1+PRO
5 dry contact	—	—
Virtual Sensors	—	5
Event Log	✓	✓
Notifications	✓	✓
MQTTS	✓	✓
Graphs	✓	✓
Maps	—	✓
3rd Party Modbus	—	✓
IPv6	—	✓
SNMPV3	—	✓
VPN	—	✓
Access Control User	—	✓
RADIUS	—	✓
Heartbeats	—	✓
Modbus	—	✓
Cloud	—	✓
Authentication	—	✓

SP1+B - Dual Power Inputs

SP1+B 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+B - Technical Specification

Dimension	Size 82 x 72 x 35 mm Weight 0.2 Kg
Network Interface	Standard 10/100 Mbps Full Duplex Ethernet RJ45 Port
Mounting	Screw mounting Built in DIN Rail Clip and cable tie loops
Power Requirements	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
Status Indication	LED indication for Power LED for network connectivity LED for sensor online and threshold status LED for dry contact input status
RJ-45	1 RJ45 Sensor Ports for connecting AKCP Autosense Sensors
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
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	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)
Outputs	Configurable output signals (0VDC/5VDC) on the 4 RJ45 sensor port
Max Sensors	Maximum of 400 onlined sensors, including virtual sensors.
Maximum Number of Access Control Users	500 Users 100 Users default
Supported Protocols **Requires Pro License**	Rsyslog MQTT / MQTTS SNMP V1/2/3 IPV6 RADIUS TACACS HTTPS Encrypted E-mail
Pro License Features	
5 Dry Contact	5 dry contact input sensor
Virtual Private Network (VPN)	VPN - Connect to AKCPro Server from your base unit through VPN over Ethernet or cellular network.
Virtual Sensors	Virtual sensor (pack of 5 sensors). Maximum of 80 virtual sensors.
500 Access Control user database	500 users for access control
IPV6	Support for IPV6 network addresses
Radius	Radius user authentication server connection. TACACS authentication to Radius.

SP1+B - Technical Drawing

81.73mm

61.23mm

Ø9.94mm

1524mm

30mm

34.89mm

71.85mm

53.24mm

64.85mm