sensorProbe2+ LCD (SP2+B-LCD / SP2+B-LCD-MOD)



Sensor Monitoring with LCD Display

The SP2+B-LCD comes with hardware to support 4 sensor ports, Dry contact, built in PoE and LCD display to show data from connected sensors. The SP2+ LCD Basic can be upgraded to the pro version with a one time software license.

Connect up to 4 AKCP sensors, including combined cabinet thermal maps and contactless current meters, providing up to 9 sensors per port.

OPTIONS:

- **4G Modem** - External cellular data modem plugs into dedicated UART modem port
- **External PSU** - Add a 5VDC external power supply for reduancy when combined with PoE
- **Modbus RS485** - Change the dry contact input to be Modbus RS485 (SP2+B-LCD-MOD)

SP2+B-LCD / SP2+B-LCD-MOD - Basic and Professional

The below table shows the features included with the SP2+LCD Basic, and the benefits of upgrading to the Professional license.

SP2+LCD	SP2+B	SP2+PRO
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	—	✓

SP2+B-LCD / SP2+B-LCD-MOD - Technical Specification

Dimension	Size 135 x 81 x 36 mm Weight 0.4 Kg
Network Interface	Standard 10/100 Mbps Full Duplex Ethernet RJ-45 Port
Mounting	0U rack-mountable Built in DIN rail mounting clip Screw hole mounting
Power Requirements	PoE IEEE 802.3af support External 5.5V 3A Power Adapter Input Voltage and Current ratings : 100V~240V - 0.22A
Status Indication	LCD display for sensor values, status and IP address LED indication for Power LED for network connectivity LED for sensor online and threshold status
RJ-45	4 RJ-45 Sensor Ports for connecting AKCP Autosense Sensors Up to 20 Dry Contact Input (5VDC) using 5DCS input for each sensor port 1x Dry Contact I/O + 4 optional, 1 I/O per sensor port
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
Operating Environment	Temperature : Min. 0°C – Max.70°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 1x 10/100 Ethernet Port 1x UART external modem port
Outputs	Configurable output signals (0VDC/5VDC) on any of the 4 RJ-45 sensor ports
Max Sensors	Maximum of 400 onlined sensors, including virtual sensors.
Maximum Number of Access Control Users	500 Users 100 Users default
Protocols *Requires Pro License *Requires Additional 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 (per port) 1 License equals 1 RJ45 port unlocked
Virtual Private Network (VPN)	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. 5 virtual sensors included for free * **
3rd Party PMS & Modbus	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)
IPV6	Support for IPV6 network addresses
Radius	Radius user authentication server connection. TACACS authentication to Radius. Requires License
Important Notes	* the sensorProbe+ units can only have 60 Modbus RS485 sensors (virtual sensor + modbus devices) ** the sensorProbe+ units can only have 60 Modbus TCP/IP sensors (virtual sensor + modbus devices)

SP2+B-LCD / SP2+B-LCD-MOD - Technical Drawing







