



sensorProbe+ Modbus Gateway

Monitor Modbus devices across a network through SNMP

AKCP's family of sensor and control systems developed over the last 30 years are widely used in industrial applications. Anywhere you need to monitor sensors and control systems our network enabled devices are the first choice.

The sensorProbe+ series is a cost effective and robust solution that can act as a Modbus RTU <-> TCP/IP as well as Modbus RTU or TCP/IP <-> SNMP gateway. It can function as either master or slave.

sensorProbe+ as Modbus Master



Up to 150 sensor values can be mapped to Modbus registers

sensorProbe+ as Modbus Slave



Up to 60 modbus registers can be polled

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 central location.

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

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..

SPX+ Modbus Gateway



All SPX+ base units can function Modbus TCP/IP (Master and Slave) and Modbus RTU as standard. Modbus RTU is available through the EXP port (Master or Slave).

An optional Modbus module can be added to your SPX+ unit that has 2x Modbus RTU ports. By using this, the SPX+ can function as both Modbus Master and Slave simultaneously.

SP2+ Modbus Gateway



SP2+ can function Modbus TCP/IP as standard (Master and Server).

Upgrade SP2+ and change one sensor port into an EXP port giving Modbus RTU connectivity.

Modbus RTU	Modbus RTU connects through Expansion port (EXP) as a 2-wire connection
Speed	9600, 19200, 38400, 57600 and 115200
Parity	None, Even, Odd
Stop Bit	1, 2
Databit	8
Modbus TCP/IP	
Host	IP Address
Port	502, 1024-65535
Modbus Slave	Support Modbus Slave RTU and TCP/IP. Can poll up to 60 values with Virtual Sensors and up to 4 AKCP PMS
Functions	0x01 - Read Coil Status 0x02 - Read Input Status 0x03 - Read Holding Registers 0x04 - Read Input Registers
Data Type	16 bits unsigned int 16 bits signed int 32 bits unsigned int 32 bits signed int 32 bits IEE floating point
Data ordering	low byte first, low word first low byte first, high word first high byte first, high word first high byte first, low word first
AKCP's Power Meter (PMS)	SPX+ and SP2+ includes interface to online up to 3 PMS via Modbus RTU. 3rd party Power Meters supported but requires purchase of license.

Modbus Notifications	SPX+ and SP2+ support Modbus Write commands via the Notification feature*
Functions	0x05 - Write Single Coil 0x06 - Write Single Register 0x0F - Write Multiple Coils (32 bits maximum) 0x10 - write Multiple Registers (2 registers maximum) * Feature available soon
Modbus Master	Support Modbus Master RTU and TCP/IP
Functions	0x03 - Read Holding Registers : 32 bits IEE floating point value 0x04 - Read Input Registers : 32 bits signed int value
Register Address List	All sensors monitored by the SPX+ and SP2+ have a Modbus register automatically assigned, and the user can edit the Modbus register assigned to the sensors. The register list can be consulted on the WebUI under System >> Modbus

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.