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SP+ LCD Sensor Manual





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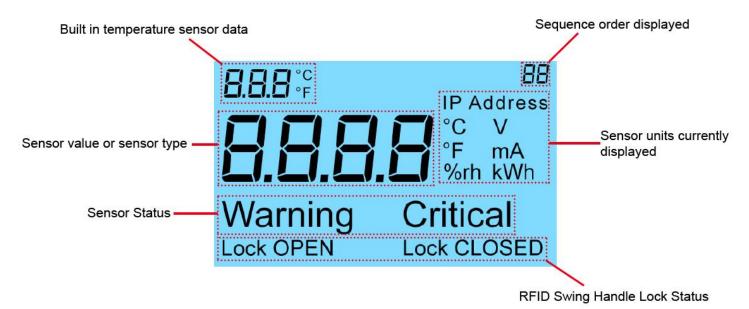


Introduction

The AKCP LCD Sensor Display plugs into any sensorProbe+ (SP2+, SPX+) base unit and can be programmed to display the data from any AKCP Intelligent or virtual sensor.

Mount a single display on the end of an aisle, on the door of every cabinet, or the wall of the room. LED indicators will alert if a sensor is in critical condition, as well as the on screen display of the critical or warning status.

Please note: this sensor is only supported on the sensorProbe+ series



Features:

- Easy to read, high quality backlit LCD display
- Connects to available sensor port on sensorProbe+
- Program to display specific sensors
- Keyhole mounting
- LED Status indicator for Critical and Warning sensor statuses
- Built-in temperature sensor
- Displays the base unit's IP address (see below)

Watch our Youtube video about this new sensor: https://youtu.be/klieKQJ52-U

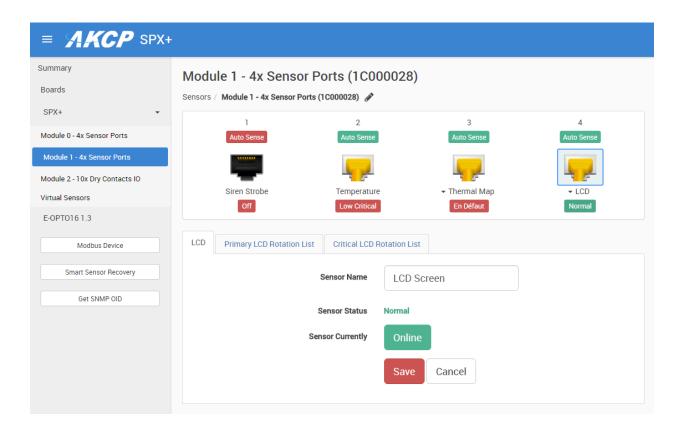
Displaying the IP address:

When the LCD Sensor is plugged in to the unit the first time, or if the Reset button is pressed once (not holding it in) on the base unit, it will display the unit's IP address (by digits, one at a time).



Sensor Configuration

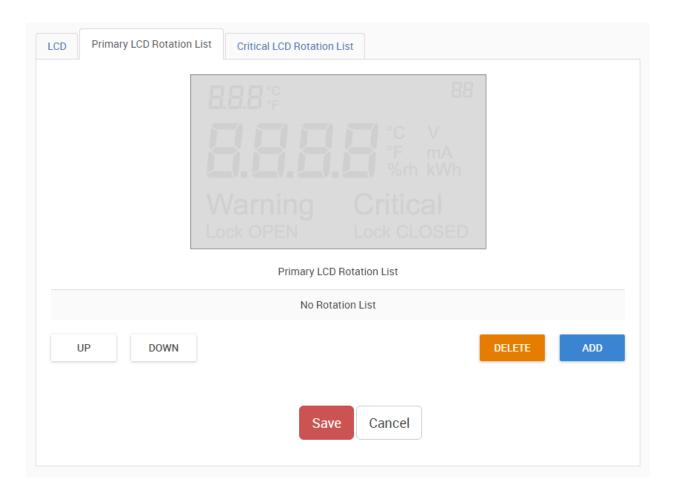
Plug in the sensor to an available sensor port, then open the base unit's Web UI and navigate to the Sensors list.



Please note:

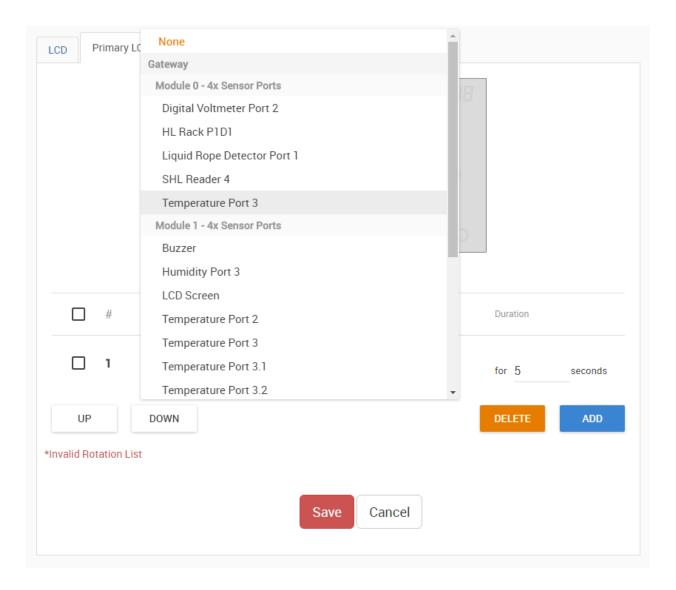
This sensor is not configurable directly from AKCess Pro Server, the configuration option will redirect to the unit's Web UI where the sensor is connected to (similar to the older sensorProbe family).





Now you can define the display rotation list that will be displayed on the LCD. The Primary Rotation List is what will be normally displayed on the screen.

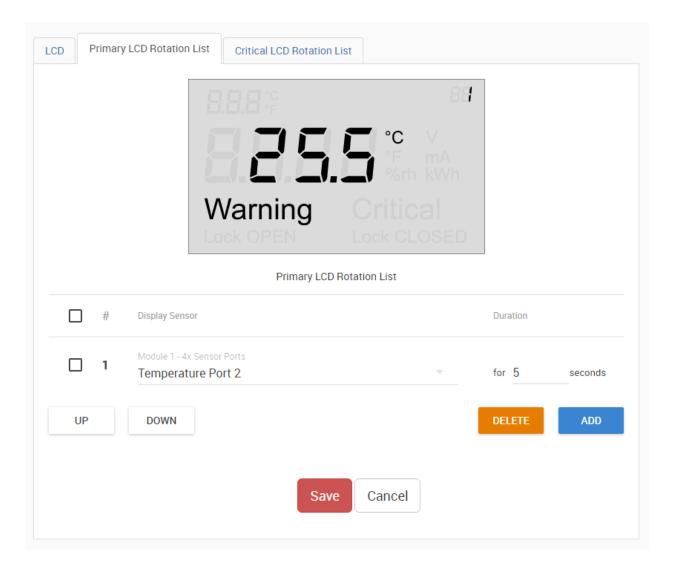




Click on the Add button, and one by one add the sensors that you'd like to have their statuses displayed on the LCD.

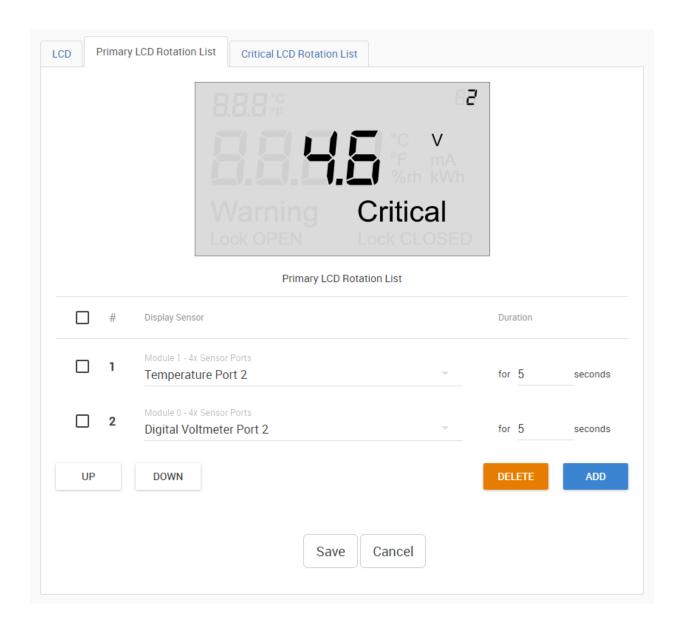
Note: You can only select the sensors which are already connected to the unit.





For each sensor, you can define the duration of the display, before it will switch to the next sensor status display.



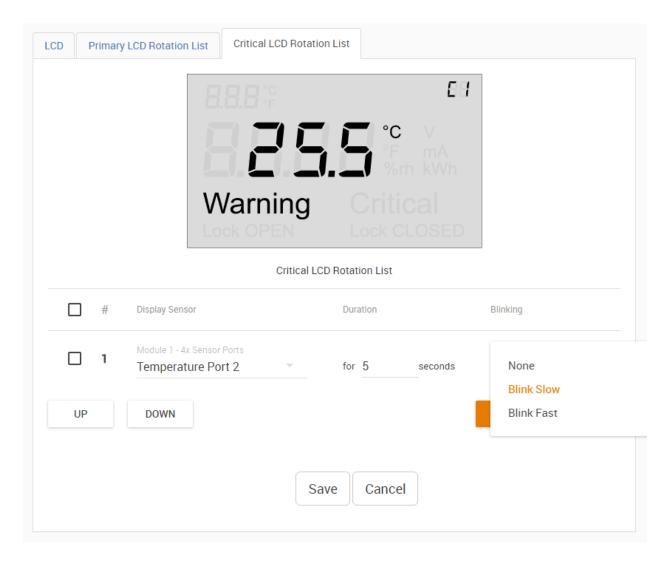


The preview screen will show you how the configured display will look like, with the actual sensor reading and status value.

The small index counter on the top right corner of the LCD screen shows the sensor's order number in the list. You can reorder the sensors by selecting them and clicking on the Up/Down buttons accordingly.

Save your configuration, then it will be uploaded to the sensor (this takes a few seconds).





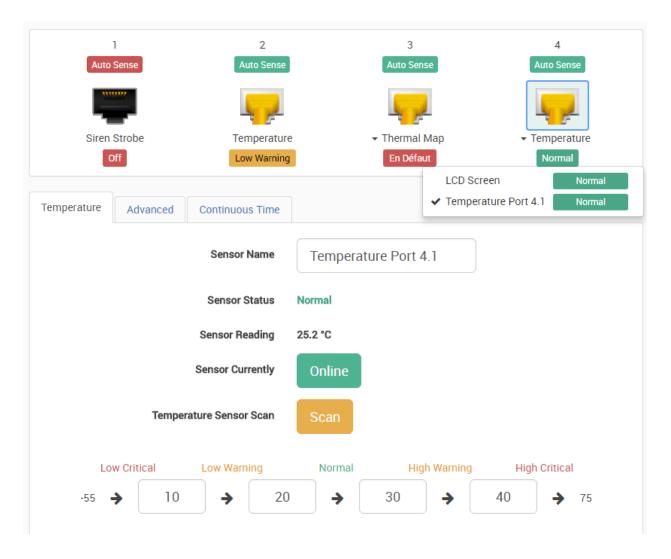
There's also a Critical Rotation List configuration, which will be used when one of the monitored sensor's status is in a warning or critical state.

<u>Important:</u> The Critical Rotation List will override the Primary Rotation List if a sensor's status is warning or critical and will only display those sensor statuses.

The display configuration is the same as for the Primary Rotation List, but you can also define a blinking rate value (slow or fast) to emphasize the value reading that is being displayed.



Built-in Temperature Sensor



The LCD Sensor's built-in Temperature Sensor is selectable from the same sensor port. Its configuration is the same as the standard Temperature Sensor's and can be used by notifications.

This sensor's reading will always be displayed on the top left corner of the LCD screen and can't be turned off.



LCD Display Sensor Types

Switch type sensors that have no unit values are displayed as a sensor-type. The following list provides a definition of the sensor mapped to a specific sensor type. Examples can be seen on the following page.

- ST-01 Airflow
- ST-02 Dry Contact I/O
- ST-03 Dry Contact Input
- ST-04 Motion Detection
- ST-05 Water Sensor
- ST-06 Security Sensor
- ST-07 Siren and Strobe
- ST-08 Sensor Controlled Relay
- ST-09 AC Voltage Sensor
- ST-10 8x Sensor Controlled Relay
- ST-11 Smoke Detector
- ST-12 8 Dry Contact I/O
- ST-13 Rope Water Sensor
- ST-14 5 Input Dry Contact
- ST-15 Handle Lock Status
- ST-16 Handle Lock Reader Status
- ST-17 Virtual Sensor (Switch Type)
- ST-18 LCD sensor status



Examples of LCD Display program





Sensor 1 - Temperature (°C)

Sensor 2 - Power (Amps)





Sensor 3 - Cabinet door lock (sensor type 16)

Sensor 4 - Voltage Sensor (V)

Through the sensorProbe+ web interface the LCD display is programmed to display the sensors you wish to view and the sequence in which they are displayed. The above example shows a series of 4 sensors status being displayed.

Global Status LEDs



The LCD Sensor has 2 specific status LEDs (yellow and red) which will light up and be blinking if a monitored sensor's status is warning or critical, respectively (see below on the example pictures).







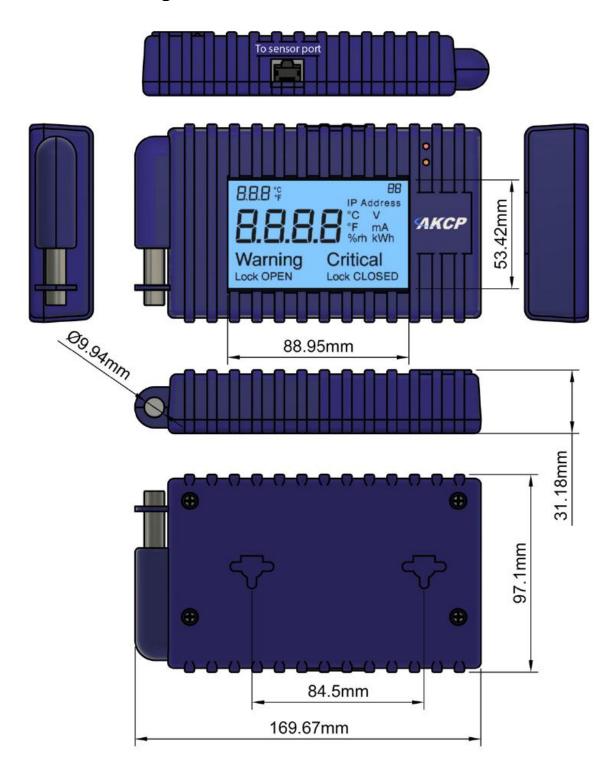








Technical Drawing





Technical Specifications

Power Input	5VDC powered by sensor port
Power Consumption	Typically 45mA, 0.22W
Display	 Continuous embedded temperature display Display up to 8 sensors in standard rotation list, configured via SP+ web interface with preview. 2 global status LEDs Display sensor status, Warning or Critical Display sensor units: °C, °F, %rh, %, V, (m)A, (k)W, (k)Wh Display the base unit's IP address when plugged in or Reset is pressed shortly Display swing handle lock status: Open, Closed



Please contact support@akcp.com if you have any further technical questions or problems.

Thanks for Choosing AKCP!