



Est. USA 1981

www.AKCP.com

5 Dry Contact Manual

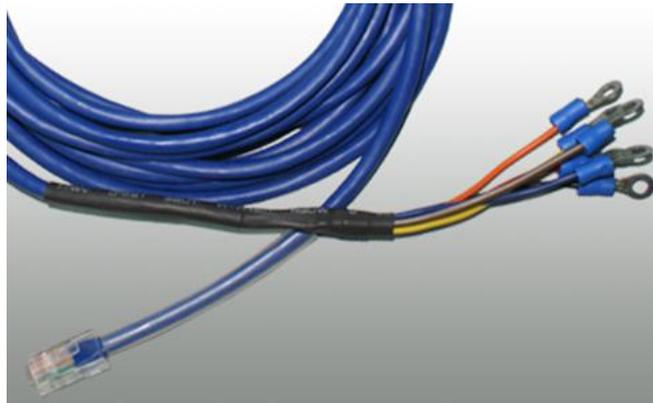


Table of Contents

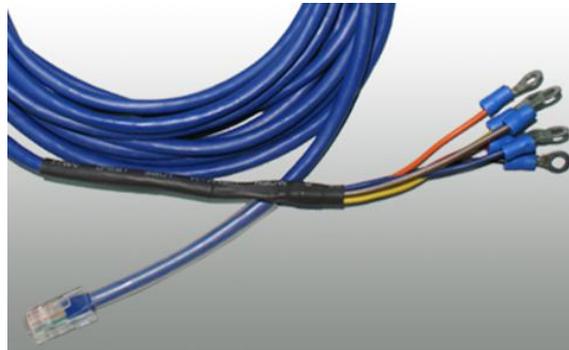
Introduction	3
Specifications	4
Entering Unlock Code SP2+.....	5
Connecting the 5DCS Sensor to SP2+.....	6
Connecting 5DCS cable to SP2	7

Introduction

What is a 5 Dry Contact Cable?

The 5 Dry Contact Cable extends your sensorProbe2 and sensorProbe2+ capabilities by allowing you to monitor an extra 5 dry contacts per port giving you a maximum of 10 dry contacts on a single sensorProbe2 or 20 x on a single sensorProbe2+ device. These sensors are not compatible with the securityProbe, sensorProbeX+, or the L-DCIM units (see the LBDC5 wireless sensor) for that version.

The 5 Dry Contact Cables or 5DCS are the older cabled version, which are still supported pictured below but are not sold any longer.



Our newer design below streamlines the sensor into a much more manageable & mountable box type using the same setup in the web interface of the SP2 or SP2+ as the older cable version.



How to use this manual

This manual is meant to provide the user with a step by step guide on how to configure and set up their unit. It utilizes screen shots in an effort to make things simpler for the user to follow. It is split up into sections that form “mini tutorials”. These cover the basic set up and common configurations of the unit, and give an introduction to its most useful features.

Package Contents

Your 5 Dry Contact Cable package contains the following items:-

- 1x 15ft 5 Dry Contact Cable
- 1 x Box Type Dry Contact Module & Extension Cable (to RJ-45 sensor port)

Technical Specifications

Measurement range	Alarm or Normal
Communications cable	RJ45 jack to sensor using UTP Cat 5 wire
Maximum extension cable length 305m (1000 ft.) with approved low capacitance shielded cable or UTP.	
Input voltage range	0 to 5 volts
Normal input voltage is settable under software	
Sensor type	Open / Closed contact switch
Current Range	Can sink up to 20 mAmps
Measurement rate	Multiple readings every second

Installation

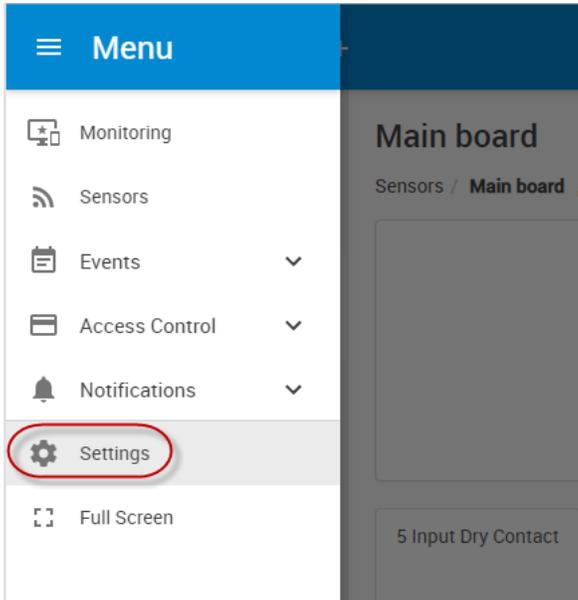
Before you begin

Before we begin with the installation of the sensor it's important for you to know that this product is only compatible with the AKCP sensorProbe2 and sensorProbe2+ base units as mentioned above. And only can be configured as “Inputs” not outputs.

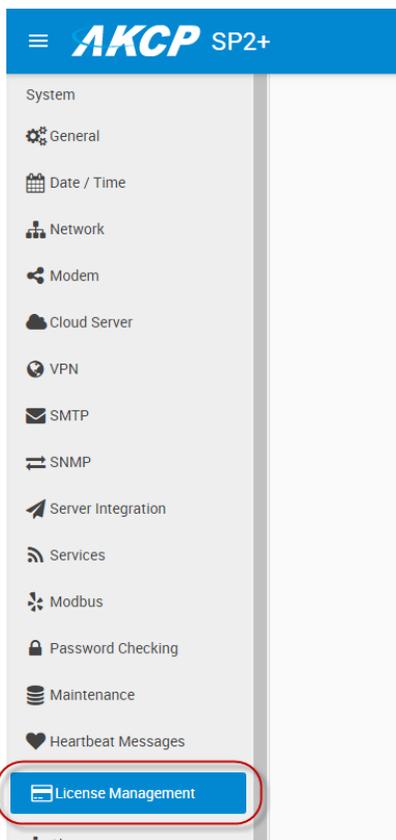
You will also need to purchase an unlock code for your AKCP base unit. These can be purchased by contacting sales@akcp.com. You will need to provide the base units MAC ID when requesting the quote and also how many you require. Please see the AKCP MSRP price list for the product codes & pricing on these sensors. Up to 10 x dry contacts on the SP2, 20 x dry contacts on the SP2+ and up to 15 x dry contacts on the SP2+E base units.

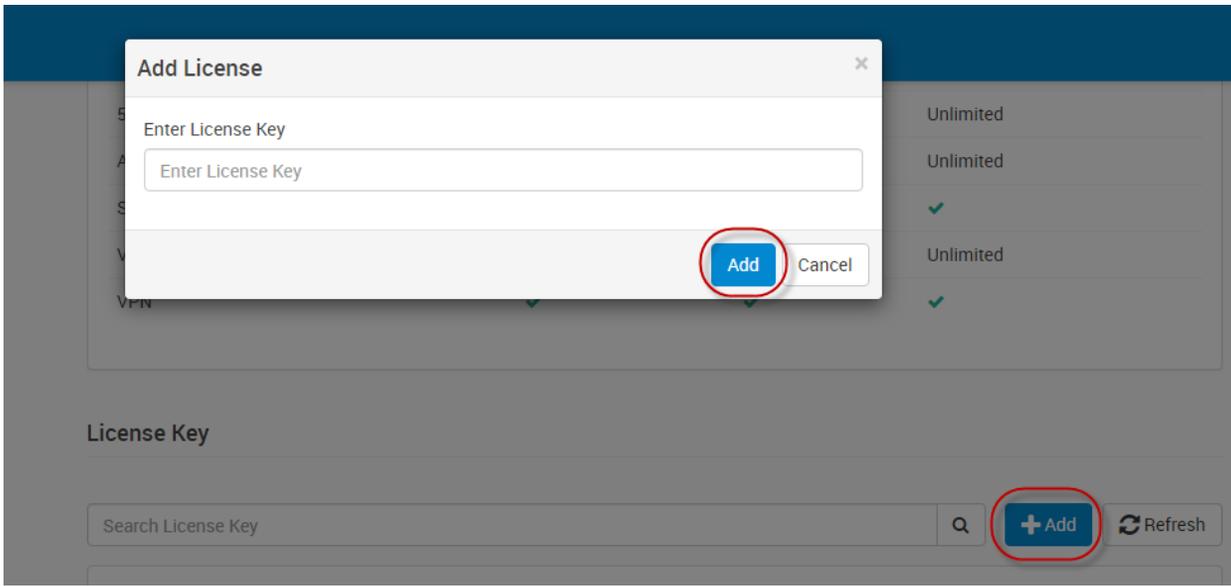
Entering the unlock codes

SP2+



First, log into the SP2+ web UI as the Admin. Then, navigate from the Main Menu to >> Settings >> License Management as shown above and below.





Next click on the + Add button and enter the License unlock code that you received from our support or sales team. You will then see the 5 Dry Contacts status as Activated in the License Management screen.

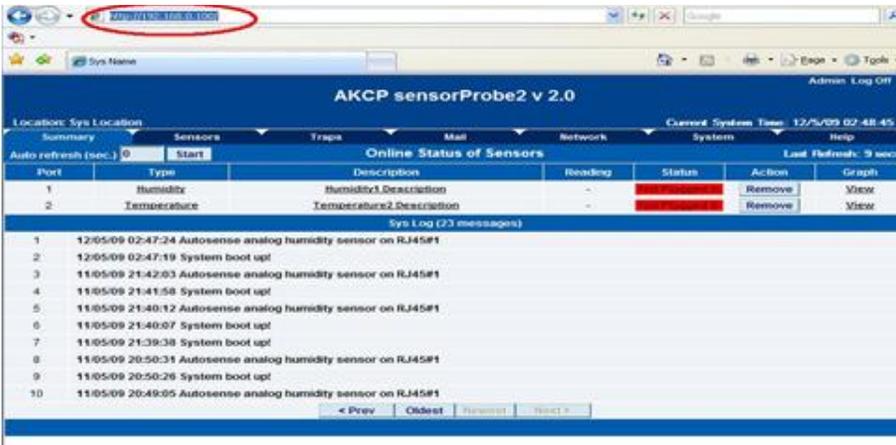
Connecting the 5DC sensor to the SP2+ base unit

1. Navigate to the Sensors page from the Main menu on the SP2+ unit after logging in as Admin.
2. On the RJ-45 sensor port you plan to connect the 5DSC sensor to, click on the Auto Sense button, turning it Red (disabling auto sense).
3. Now turn that RJ-45 sensor port offline by clicking the green online button and replying yes to take it offline.
4. Connect the 5DCS sensor to the RJ45 sensor port.
5. Now select the 5 Input Dry Contacts from the drop down list of available devices.
6. Next click the down arrow next to the 5 Input Dry Contact to get list of available contacts to configure each of them as required.

Note: If you happen to take one or more of the dry contacts offline, just repeat the steps above to get the sensors back online.

SP2

Once you have connected the sensor you will need to point your browser to the IP address of the unit (default, 192.168.0.100). Next you need to login as the administrator using your administrator password (default is "public"). You will then be taken to the summary page. This is shown below:



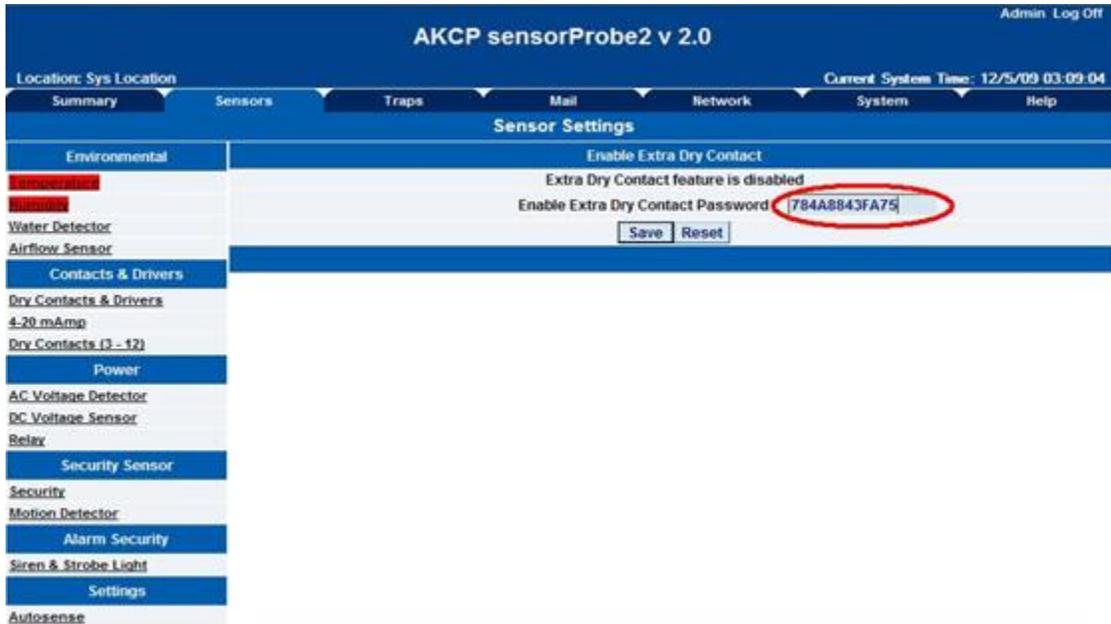
Now click the “Sensors” tab at the top of the page:-



Once you are on the Sensors page you will need to select “Dry Contacts” from the list on the left side of the page as shown below:-



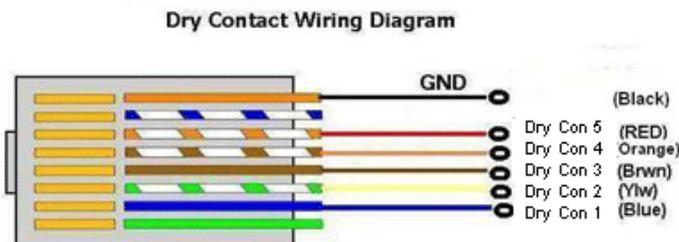
Once you have clicked the “Dry Contact” option you will be taken to the following page:-



Enter your password in the “Enable Extra Dry Contact Password” box and click “Save”. You have now setup your dry contact sensor.

Connecting to the SP2 base unit

To be able to use your 5 Dry Contact Cable, or the 5 you will first need to connect it to one of the RJ45 ports on the rear of your sensorProbe2. Below is a diagram which shows how each dry contact is connected through the single RJ45 port:-



Setup of the 5 Dry Contact Cable

Setup

AKCP sensorProbe2 v 2.0

Location: AKCP 7th Floor Current System Time: 22/8/10 09:57:38

Sensors

Sensor Settings

Please select a Dry contact Sensor to configure

Sensor Description	Port
Dry Contact Switch1 Description	1
Smoke Alarm Sensor	2

Environmental

Temperature

Humidity

Water Detector

Airflow Sensor

Contacts & Drivers

Dry Contacts & Drivers

4-20 mAmp

Dry Contacts (3 - 12)

Power

AC Voltage Detector

DC Voltage Sensor

Relay

Security Sensor

Security

Motion Detector

Alarm Security

Siren & Strobe Light

Settings

Autosense

©2003 AKCP Inc. All rights reserved.

Click on the Sensors page, then click on the Dry Contacts (3 – 12) in the “Contacts & Drivers” column, then click on the dry contact switch Description on port 1 as shown above.

AKCP sensorProbe2 v 2.0

Location: AKCP 7th Floor Current System Time: 22/8/10 15:31:47

Sensors

Sensor Settings

Dry Contact Sensor Settings

Port 3

Description Dry Contact 5DCS 1

Status Norm

Description of Status When Dry Contact Normal Norm

Description of Status When Dry Contact Critical On

Sensor Online/Offline Online

Go Online/Offline Online

Normal State Open/+5 Volts

Save Reset

Sensor Controlled Relay Sensor Controlled Siren Sensor Status Filters

Click the Save button to save your changes to each dry contact

©2003 AKCP Inc. All rights reserved.

Now enter your all of your dry contacts descriptions, descriptions of status (if you don't see this, note the reason below), enable all the dry contacts, the normal state then save your configurations. Note: the 5DCS dry contacts can only be setup as inputs and cannot be setup as outputs. Maximum input is 5VDC.

AKCP sensorProbe2 v 2.0 Admin Log Off

Location: AKCP 7th Floor Current System Time: 22/8/10 10:10:40

Summary Sensors Traps Mail Network System Help

Sensor Settings

Please select a Dry contact Sensor to configure

Environmental	Sensor Description	Port-Switch
Temperature	Dry Contact 5DCS 1	1-3
Humidity	Dry Contact 5DCS 2	1-4
Water Detector	Dry Contact 5DCS 3	1-5
Airflow Sensor	Dry Contact 5DCS 4	1-6
	Dry Contact 5DCS 5	1-7
Contacts & Drivers		
Dry Contacts & Drivers		
4-20 mAmp	Not Connected	2-8
Dry Contacts (3 - 12)	Not Connected	2-9
Power	Not Connected	2-10
AC Voltage Detector	Not Connected	2-11
DC Voltage Sensor	Not Connected	2-12
Relay		
Security Sensor		
Security		
Motion Detector		
Alarm Security		
Siren & Strobe Light		
Settings		
Autosense		

©2003 AKCP Inc. All rights reserved.

You will now see the list of dry contacts that are now online as shown above.

AKCP sensorProbe2 v 2.0 Admin Log Off

Location: AKCP 7th Floor Current System Time: 22/8/10 10:11:28

Summary Sensors Traps Mail Network System Help

Sensor Settings

Dry Contact Sensor Settings

Port	7
Description	Dry Contact 5DCS 5
Status	On
Description of Status When Dry Contact Normal	On
Description of Status When Dry Contact Critical	Off
Sensor Online/Offline	Online
Go Online/Offline	Online
Normal State	Open/+5 Volts
<input type="button" value="Save"/> <input type="button" value="Reset"/>	
<input type="button" value="Sensor Controlled Relay"/> <input type="button" value="Sensor Controlled Siren"/> <input type="button" value="Sensor Status Filters"/>	

©2003 AKCP Inc. All rights reserved.

If you do not see this option for entering the status descriptions, then you have the older sensorProbe2 with the mega128 memory chip.



©2003 AKCP Inc. All rights reserved.

This screen shot above shows the dry contact options on an sensorProbe2 that has the older mega128 memory chip.

FAQ

Question #1: I have a DCS15, or normal AKCP dry contact sensor (single RJ45), what is the difference between this sensor and my 5DCS sensor?

Answer: The difference is the 5DSC is input only, where the DCS15 is both input and output. Also, the DCS15 sensors are supported on all of our base units, where the 5DCS are only supported on the SP2 and SP2+ AKCP base units.

Question #2: What is the OID for the 5DCS?

Answer: You would use the same OID for the 10 dry contact as you would for the switch sensor type or single dry contact sensor.

sensorProbeSwitchStatus OID = 1.3.6.1.4.1.3854.1.2.2.1.18.1.3.X

Important Notes: Please check our support website for our latest updated OID manual. If you need the latest MIB file, please request this from our support team.

If you are using the SP2+ base unit, please keep in mind you can always use the “Get SNMP OID” button in the units web interface for each sensor connected.

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

Thanks for Choosing AKCP!