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# **5 Dry Contact Manual**



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## **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 (7 cable or UTP.	1000 ft.) with approved low capacitance shielded
Input voltage range	0 to 5 volts
Normal input voltage is settable under so	ftware
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 <u>sales@akcp.com</u>. 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.





Add License	×
5 Enter License Key	Unlimited
A Enter License Key	Unlimited
s	×
V	Add Cancel Unlimited
VPN 🗸	· · ·
License Key	
License Key	

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:



r or i	🖉 Sys Name				🗇 · 🖾	- (a) = (a) = (a)	ige + 🔘 Tgol
		АКСР	sensorProbe	2 v 2.0			Admin Log O
ocations	lys Location				Convert 15	ystem Time: 12/	5/09 02:48 4
Some	sary Sensors	Trapa	Maile	Network	Synta	in the second	Help
do refres	h (sec.) 0. Start	On	line Status of Sen	sors		Lord	Reference: 5 to
Port	Type	Denser	tpition .	Rending	Statut	Action	Graph
1	thurnedity	thumidity1.0	Addition (		TAXA PROPERTY N	Remove	Mana
2	Lemperature	Temperature	2.Demoniation		Test Produced In	Remove	Missor
			Sys Log (23 message	4)			
1	12/05/09 02:47:24 Autosense ana	log humidity sensor o	n RJ45#1				
2	12/05/09 02:47:19 System boot up	M					
3	11/05/09 21:42:03 Autosense ana	log humidity sensor o	n RJ45#1				
4	11/05/09 21:41:58 System boot up	M					
5	11/05/09 21:40:12 Autosense ana	log humidity sensor o	n RJ45#1				
0	11/05/09 21:40:07 System boot up	st.					
7	11/05/09 21:39:38 System boot up	×					
-	11/05/09 20:50:31 Autosense ana	log humidity sensor o	n RJ45#1				
9	11/05/09 20:50:26 System boot up	×					

Now click the "Sensors" tab at the top of the page:-

		AKCE	sensorProbe2	v 2.0		Admin Log Off
Priling Lond Local						
Location: Sys Location					Current System Time	: 12/5/09 03:04:59
Summary	Sensors	Traps	Mail	Network	System	Help
			Sensor Settings			
Environmental						
Temperature						
Numidity						
Water Detector						
Airflow Sensor						
Contacts & Drivers	s					
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						

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:-

		AK	CP sens	orPro	be2 \	2.0		Admin Log Off
Location: Sys Location							Current System Tim	e: 12/5/09 03:09:04
Summary	Sensors	Traps	0.4	Mail	-	Network	System	Help
			Sens	or Settin	igs			
Environmental				En	able Extr	a Dry Contact		
Temperature				Extra Dry	Contact	t feature is disable	ed	
Statements of the second s			En	able Extra	Dry Con	tact Password	784A8843FA75	
Water Detector					Save	Reset		
Airflow Sensor	10 m				Land			
Contacts & Drivers								
Dry Contacts & Drivers								
4-20 mAmp								
Dry Contacts (3 - 12)								
Power								
AC Voltage Detector								
DC Voltage Sensor								
Belay	_							
Security Sensor	100							
Security								
Motion Detector	100							
Alarm Security								
Siren & Strobe Light	- 22							
Settings								
Autosense								

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

ЛКСР		AK	CP sensorProb	e2 v 2.0				Admin Log Off
Location: AKCP 7th Floor							Current Sys	tem Time: 22/8/10 09:57:38
Summary	Sensors	Traps	Mail		Network	M	System	Help
			Sensor Setting	s				
Environmental			Please se	lect a Dry conf	tact Sensor to conf	igure		
<u>Temperature</u>	1		Sensor D	escription				Port
Humidity			Dry Contact Swi	tch1 Descriptic	n			1
Water Detector			Smoke Ala	rm Sensor	K			2
Airflow Sensor								
Contacts & Drivers					3			
Dry Contacts & Drivers								
4-20 mAmp								
Dry Contacts (3 - 12)	2							
Power								
AC Voltage Detector								
DC Voltage Sensor								
Relay								
Security Sensor								
Security								
Motion Detector								
Alarm Security								
Siren & Strobe Light								
Settings								
Autosense								
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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.

АКСР		AKCP sensorProbe2	v 2.0			Admin Log Off
Location: AKCP 7th Floor					Current System Time:	22/8/10 15:31:47
Summary	Sensors Traps	Mail	Network	× (	System	Help
		Sensor Settings				
Environmental		Dry C	ontact Sensor Settings			
<u>Temperature</u>		Port	3			
Humidity	Enter your dry contacts decription	ns	Dry Contact 5DCS 1			
Water Detector		Status	Norm			
Airflow Sensor	Description of	Status When Dry Contact Normal	Norm			
Contacts & Drivers	Description of	Status When Dry Contact Critical	On	_		
Dry Contacts & Drivers		Sensor Online/Offline	Online			
4-20 mAmp		Go Online/Offline		Enable each	dry conact input here	
Dry Contacts (3 - 12)		do crimie/crimie				
Power		Normal State	Open/+5 Volts 💌 ┥	Choose y	our Normal State here	
AC Voltage Detector			Save Reset			
DC Voltage Sensor			4			
Relay		Sensor Controlled Relay Se	ersor Controlled Siren	Sensor Status Filters		
Security Sensor		1				
Security						
Motion Detector		Click the Save butt	on to save your			
Alarm Security		changes to each	h dry contact			
Siren & Strobe Light						
Settings						
Autosense						
		©2003 AKCP bc All rights reser	werd			

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.



Location: AKCP 7th Flor  Location: AKCP 7th Flor  Current System Time: 22/8/10 10:10:40  Summary Sensors  Traps Mult Network System Holp Korean  Environmental  Environmental Environmental  Environmental  Environmental  Environmental  Environmental  Environmental  Environmental  Environmental Environmental	AKCP					eneorProh	a2 y 2 0			Admin Log Off
Location: AKCP 7th Floor         Current System Time: 22/0/10 10: 10:0.00           Summary         Sensors         Traps         Mail         Network         System         Help           Sensor Settings          Sensor Settings         Help         Help <th>MACP</th> <th></th> <th></th> <th></th> <th>ANOF S</th> <th>ensorriob</th> <th>52 V 2.0</th> <th></th> <th></th> <th></th>	MACP				ANOF S	ensorriob	52 V 2.0			
Summary         Sensors         Traps         Mail         Retwork         System         Help           Sensor Settings           Please select a Dry contact Sensor to configure         Port.Switch         1-3           Temperature          Sensor Description         Port.Switch         1-3           Main Midy         Bry contact S0054         1-3         1-3           Yater Unlescold         Bry contact S0055         1-4         1-5           Arthow Sensor         Bry contact S0053         1-6         1-6           Dry Contact S 0054         Bry contact S0055         1-7         1-7           Arthow Sensor         Bry contact S0055         2-8         2-8           Bry Contact S 0054         Bry Contact S0055         2-9         1-7           Kot Connected         2-8         2-8         2-8         2-8           Relay         Kot Connected         2-10         2-10         2-10         2-10           C Voltage Sensor         Kot Connected         2-11         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2-12         2	Location: AKCP 7th Floor								Current Syste	m Time: 22/8/10 10:10:40
Sensor Settings         Endronmental       Please select a Dry contact Sensor Description       Port-Switch         Iemperature       Ieno Sensor Description       1-3         Waind Ry       Ieno Sensor Description       1-3         Waind Ry       Ieno Sensor Description       1-4         Waind Ry       Ieno Sensor Description       1-3         Waind Ry       Ieno Sensor Description       1-4         Waind Ry       Ieno Sensor Description       1-6         Atribus Sensor       Ieno Sensor Description       1-6         Dry Contacts & Drivers       Ieno Sensor Description       2-8         Dry Contacts & Drivers       Ieno Sensor Description       2-9         Value Contacts & Drivers       Ieno Sensor Description       2-9         Value Contacts & Ia       Ieno Sensor Description       2-9         Power       Not Connected       2-10         AC Volaten Detector       Ieno Sensor Description       2-10         Security Sensor       Security Sensor       Security Sensor       Security Sensor         Security Sensor       Security Sensor       Security Sensor       Security Sensor         Security Sensor       Security Sensor       Security Sensor       Security Sensor         Security Sensor	Summary	Sensors	1 Martin	Traps		Mail	N N	Network	🔨 System	Help
Environmental     Please select a Dry contact Sensor to configure       Temperature     Sensor Description     Port-Switch       Humidity     Dry Contact 605.1     1-3       Water Detector     11/5     1-4       Airfow Sensor     Dry Contact 605.2     1-4       Ortdacts & Drivers     11/5     1-5       Dry Contacts & Drivers     11/6     1-6       Dry Contacts & Drivers     11/7     14/6       Value Detector     2-8     1-7       Not Connected     2-9     14/6       Dry Contacts (0.5)     1/7     1/7       Value Detector     2-9     1/7       Not Connected     2-9     1/7       Value Detector     2-9     1/7       Value Detector     2-10     2/10       Value Detector     2-10     2/10       Value Detector     2-10     2/10       Value Detector     2/12     2/10       Security Sensor     2     2/12       Security Sensor     Security Sensor     2       Security Sensor     Security Sensor     Security Sensor       Atarm Security     Security     Security       Stren & Strobe Light     Settings     Security					S	ensor Settings				
Immerature     Port-Switch       Humidity     Immediate Sensor Description     Immediate Sensor       Water Interded     Immediate Sensor     Immediate Sensor       Arifow Sensor     Immediate Sensor     Immediate Sensor       Contacts & Drivers     Immediate Sensor     Immediate Sensor       Dry Contacts & Drivers     Immediate Sensor     Immediate Sensor       Sensor     Immediate Sensor     Immediate Sensor       Pry Contacts & Drivers     Immediate Sensor     Immediate Sensor       Power     Immediate Sensor     Immediate Sensor       C Voltage Detector     Immediate Sensor     Immediate Sensor       Security Sensor     Immediate Sensor     Immediate Sensor	Environmental					Please sel	ect a Dry conf	tact Sensor to configure		
Humidity     Introduction     1-3       Yater fortextor     Introduction     1-4       Arifow Sensor     Introduction     1-5       Contacts & Drivers     Introduction     1-6       Dry Contact & Drivers     Introduction     1-6       Page Manno     Introduction     2-8       Hey Contacts & 12     Net Connected     2-9       Power     Net Connected     2-10       Power     Net Connected     2-11       Contacts & Security Sensor     2-12       Security     2-12       Security     2-12       Security     2-12       Security     2-12       Security     2-12       Security     2-12	<u>Temperature</u>					Sensor De	scription			Port-Switch
Value Datastor     1-4       Airlow Sensor     1-5       Dry Contacts & Drivers     1-6       Stockast & Drivers     1-6       Dry Contacts & Drivers     1-6       Atam Security Sensor     2-10       Security Sensor     2-12       Security Sensor     2-12       Security Sensor     1-6       Security Sensor     1-7       Security     1-7       Security     1-7       Security     1-7       Security     1-7       Security     1-7       Security     1-7   <	Humidity					Dry Conta	ct 5DCS 1			1-3
Airfow Sensor     1-5       Contacts & Drivers     1-6       Dry Contacts & Drivers     1-7       Contacts & Drivers     1-7       Dry Contacts & Drivers     1-7       Contacts & Drivers     2-8       Bry Contacts (C. 12)     1-7       Power     2-8       Power     2-10       Power     2-10       Contacts Gensor     2-12       Security Sensor     2-12       Security Sensor     2-12       Security Sensor     2-12       Security Sensor     2-12       Adrom Security     2-12       Security Advance     2-12       Adarm Security     2-12       Security     2-12 <td>Water Detector</td> <td></td> <td></td> <td></td> <td></td> <td>Dry Conta</td> <td>ct 5DCS 2</td> <td></td> <td></td> <td>1-4</td>	Water Detector					Dry Conta	ct 5DCS 2			1-4
Contacts & Drivers     1-6       Dry Contacts & Drivers     1-7       Bry Contacts & Drivers     2-8       Harmon     1-8       Harmon     2-8       New Contacts & 12     10       New Contacts & 12     10       New Contacts & 12     2-11       New Contacts & 12     10       Net Connected     2-12       Oc Voltage Detector     2-12       Relay     2       Security Sensor     2	Airflow Sensor					Dry Conta	ct 5DCS 3			1-5
Dry Contacts & Drivers     1-7       420 mAmp     Not Connected     2-9       Iry Contacts & 1-12     2-9     2-10       Power     Not Connected     2-10       A Contage Detector     2-10     2-11       Contage Sensor     2-12     2-12       Resurfly Sensor     2-12     2-12       Security Sensor     2-12     2-12       Security Sensor     2-12     2-12       Motion Detector     2-12     2-12       Motion Detector     2-12     2-12       Security Sensor     2-12     2-12       Security Sensor     2-12     2-12       Motion Detector     2-12     2-12       Motion Detector     2-12     2-12       Motion Detector     2-12     2-12       Security Sensor     2-12     2-12       Security Sensor     2-12     2-12       Motion Detector     2-12     2-12       Motion Detector     2-12     2-12       Security     2-12     2-12       Security     2-12     2-12       Motion Detector     2-12     2-12       Security     2-12     2-12       Motion Detector     2-12     2-12       Security     2-12     2-12	Contacts & Drivers					Dry Conta	ct 5DCS 4			1-6
All notions     Air Connected     2-8       Not Connected     2-9       Reget     Act Connected     2-10       Power     Act Connected     2-11       Act Voltage Elector     Relay     2-12       Connected     Connected     Connected       Security Sensor     Connected     Connected	Dry Contacte & Drivere					<b>Dry Conta</b>	ct 5DCS 5			1-7
Strong     Ref Connected     2-10       Not Connected     2-11       Not Connected     2-12       Security Sensor     Security Sensor	4-28 mAmp					Not Con	nected			2-8
Not Connected     04/10       Not Connected     0/10       Not Connected     0/10       A Coltage Detector     0/10       DC Voltage Sensor     0/10       Relay     0/10       Security Sensor     0/10       Security     0/10       Motion Detector     0/10       Alarm Security     0/10       Security Sensor     0/10       Security     0/10	Bro Contacte (3, 42)					Not Con	nected			2-9
Forward     Not Connected     2-11       Not Connected     0.2-12     0.2-12       DC Voltage Sensor     0.2-12     0.2-12       Relay     0.2-12     0.2-12       Security Sensor     0.2-12     0.2-12       Security Sensor     0.2-12     0.2-12       Motion Detector     0.2-12     0.2-12       Strobe Light     0.2-12     0.2-12       Settings     0.2-12     0.2-12       Autosense     0.2-12     0.2-12	Dry Condicts (0 - 12)					Not Con	nected			2-10
Act Voltage Detector     0       C Voltage Sensor     2-12       Relay     2       Security Sensor	Puwei					Not Con	nected			2-11
UC Volkage Sensor       Relay       Security Sensor       Security       Motion Detector       Alarm Security       Siren & Strobe Light       Settings       Autosense       Image: Comparison of the strobe o	AC Voltage Detector					Not Con	nected			2-12
Relay       Security Sensor       Security       Motion Detector       Alarm Security       Strobe Light       Settings       Autosense       Autosense	UC Voltage Sensor									
Security Sensor Security Motion Detector Alarm Security Sire & Strobe Light Settings Autosense	Relay									
Security Motion Detector Alarm Security Siren & Strobe Light Settings Autosense	Security Sensor									
Motion Detector Alarm Security Sirea & Strobe Light Settings Autosense	Security									
Alarm Security       Sire & Strobe Light       Settings       Autosense	Motion Detector									
Siren & Strobe Light Settings Autosense	Alarm Security									
Settings Autosense	Siren & Strobe Light									
Autosense	Settings									
	Autosense									
©2003 AKCP Inc. All rights reserved.					©2003 AK	CP Inc. All rights i	reserved.			

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

11/00						Admin Log Of
АКСР		AKCP s	sensorProbe2	v 2.0		
Location: #KCD 7th Eleon						C
				- Hertingerte	· ·	Current System Time. 22/6/10 10.11.2
summary	Sensors	iraps	Mall	Network	oye	stem neip
			Sensor Settings			
Environmental			Dry C	Contact Sensor Settings		
Temperature			Port	7		
Humidity			Description	Dry Contact 5DCS 5		
Water Detector		10.E	Status	On		
Airflow Sensor		Description of Status Whe	en Dry Contact Normal	On		
Contacts & Drivers		Description of Status Whe	en Dry Contact Critical	Off	-)	
Dry Contacts & Drivers		<u></u>	Sensor Online/Offline	Online	~	
4-20 mAmp			Go Online/Offline	Online T		
Dry Contacts (3 - 12)			oo oniine/onnine			
Power			Normal State	Open/+5 Volts		
AC Voltage Detector				Save Reset		
DC Voltage Sensor						
Relay		Sensor	Controlled Relay S	ensor Controlled Siren	Sensor Status Filters	
Security Sensor						
Security						
Motion Detector						
Alarm Security						
Siren & Strobe Light						
Settings						
Autosense						
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If you do not see this option for entering the status descriptions, then you have the older sensorProbe2 with the mega128 memory chip.



						9022			Ac	lmin Log Off
		AKC	P sensorP	robe2 Onlin	e Demo Ui	nit				
Location: ACKP Bangkok Office								Current	System Time: 23/7/1	0 11:11:36
Summary	Sensors	Тгарѕ		Mail	M	Network	×	System	Hel	p.
			Se	nsor Settings						
Environmental				Dry	Contact Sensor	Settings				
<u>Temperature</u>				Port	3					
Humidity				Description	Dpy Contact	Switch3 De	scription			
Water Detector				Status	No Status					
Airflow Sensor			Se Se	ensor Online/Offline	Online					
Contacts & Drivers				Go Online/Offline	Online 💌					
Dry Contacts & Drivers				Normal State	Open/+5 Vol	its 🔻				
4-20 mAmp					Sam Ross	ot				
Dry Contacts (3 - 12)					0010 11000	U.				
Power			Sonsor C	ontrolled Relay	Consor Controllo	d Siron	Soneor Statue Filt	ore		
AC Voltage Detector			Sensor C	ond one a ready	Sensor Controlle	su siren	Sensor Status File	613		
DC Voltage Sensor										
Relay										
Security Sensor										
Security										
Motion Detector										
Alarm Security										
Siren & Strobe Light										
Settings										
Autosense										

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

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## 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 <u>support@akcp.com</u> if you have any further technical questions or problems.

## Thanks for Choosing AKCP!