

# **RAMOS Ultra EX-D8-8**

## **User Manual**

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## 1. Introduction

### 1.1. What is EX-D8-8?

The EX-D8-8 module extends the RAMOS Ultra capabilities by connecting an additional eight dry contacts to a single intelligent sensor port on the RAMOS Ultra.

### 1.2. 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.

At the end of the manual there is a FAQ section that provides some further in-depth information regarding specific set ups and answers some commonly asked questions. If you need any further information or help with using your unit then please contact us on [ramos@conteg.com](mailto:ramos@conteg.com) and one of our technical support staff will be only too pleased to help you with any information you require.

### 1.3. Package Contents

Your EX-D8-8 package contains the following items:

- 8x terminal block connectors
- 1,5m straight cable

## 1.4. Connection Points

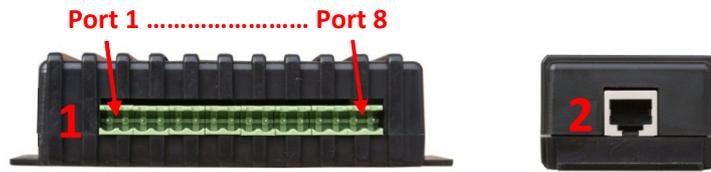


Fig 1. Side panels

### 1. Terminal Block connectors

There are eight female terminal block connectors on the EX-D8-8, these are for connecting your additional dry contacts via the male terminal block connector.

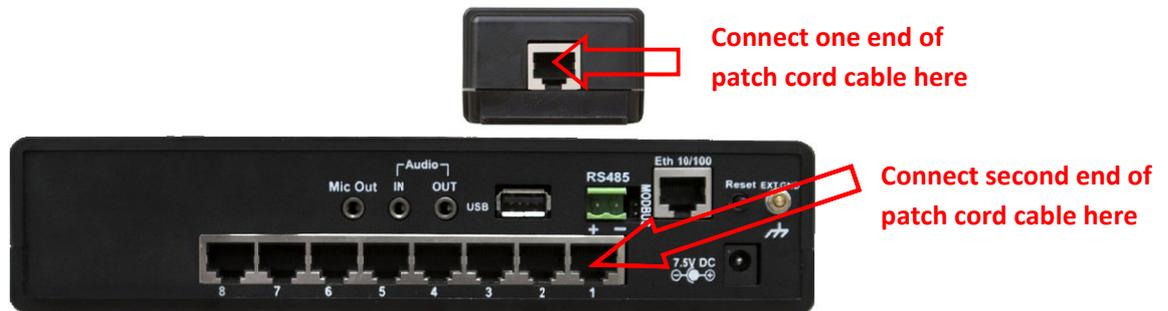
### 2. RJ45 Connection point

This is for connecting the EX-D8-8 to the base unit via straight cable.

## 2. Installation

### 2.1. Connecting to the base unit

Below is a diagram showing how to connect the EX-D8-8 to the RAMOS Ultra. To begin setup the unit by following the instructions below:



### 2.2. Setting up a Sensor

In this section we will now go through the basic set up of a sensor. This basic set up process is applicable to all of our dry contact sensors. If you require information on specific functions of a particular sensor then please download the manual for that sensor from our website, or locate it on your product CD.

a) Plug the sensor into one of the female terminal block connection points on the side panel of the unit.



Connect a dry contact to selected port

b) Now 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.

Host Name	Type	Sensor Name	Reading	Status
Main Module	Dry Contact	Dry Contact Port 6.1	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.2	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.3	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.4	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.5	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.6	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.7	-	Critical
Main Module	Dry Contact	Dry Contact Port 6.8	-	Normal
Main Module	Dual Humidity	Dual Humidity Port 2	39 %	Low Warning
Main Module	Dual Temperature	Dual Temperature Port 2	24.0 °C	Normal
Main Module	Temperature	Temperature Port 1	24.0 °C	Normal
Main Module	Water	Water Detector Port 8	-	Normal

The EX-D8-8 should be listed, along with its current status.

c) By clicking on the “Sensors” tab (indicated below). This will bring you to the following page, the sensors page:

Sensor Name	Status	Sensor Currently	Direction	Description of Status When Normal	Description of Status When Critical	Description of Status When Sensor Error
Dry Contact Port 6.1	Critical	Online	Input	Normal	Critical	Sensor Error

As you can see in the above image, the EX-D8-8 as shown connected to port number six.

Once you have move with cursor on that sensor port, the window “Sensors on port 6” will pop up and on this window is possible choice a sensor for setting.

## 2.3. Sensor Settings

### 1. Dry contact pop up tab

Sensors on Port 6	
Dry Contact Port 6.1	Critical
Dry Contact Port 6.2	Critical
Dry Contact Port 6.3	Critical
Dry Contact Port 6.4	Critical
Dry Contact Port 6.5	Critical
Dry Contact Port 6.6	Critical
Dry Contact Port 6.7	Critical
Dry Contact Port 6.8	Normal

Each dry contact sensor is listed in numeric order as “Sensors on port 6”; Click any one of these to be taken to the settings page of the sensor chosen.

### 2. Sensor Name

Sensor Name

By clicking in this box you can change the name of each sensor to anything you desire.

### 3. Sensor Status

Status  Normal

This displays your chosen sensors current status.

### 4. Online / Offline

Sensor Currently  Online

This shows you if your chosen sensor is currently online or offline.

### 5. Direction

Direction  Input  Output

Here you can set the direction of your sensor to either input or output, if you select output you will be shown the following options:

#### 5a. Output Status

Description of status When Output High   
 Description of status When Output Low

Here you can set a custom description for when your sensor records either a high or low status reading.

#### 5b. Control Mode

Control Mode  Manual Control  
 Notification Control  
 Time Control

Here you can set your control mode to either manual control, notification control, or time control.

#### 5c. Notification Control and Cycle Time

Notification Controlled 

- Low
- High
- Cycle Low-High-Low
- Cycle High-Low-High

If you select “Notification control” from the options shown in fig 5b, you will then need to set your notification options. Here you can chose from either Low or high, or you can chose to cycle your notification.

If you choose to cycle your notification, you can set the time in the option below:

Cycle Time  Second(s)

### 6. Normal State

Normal State  Closed/GND  Open/+5 Volts

Here you can select between an open circuit (+5 Volts) or a closed circuit (GND).

### 7. Enable Graph

Enable Graph  On  Off  
[Click here to view graph](#)

This option allows you to enable your graphing data. To access your graph, click “click here to view graph”

This will display the page shown below which contains all your graphing data.



### 8. Sensors URL

Popup Windows on Sensor Name  
 Sensors URL   
 Open link in  Current Windows  New Windows

In the “Sensor URL” box you can assign a website to your chosen sensor, this will be displayed within sensor information on the “Map” interface on the summary page. The website link can be opened in the current window or in a new window.

## 9. Status Options

Continuous Time for Sensor to be in new Status before accepting new Status

Critical	<input type="text" value="0"/>	0 secs
Sensor Normal	<input type="text" value="0"/>	0 secs
Sensor Error	<input type="text" value="0"/>	0 secs

The first set of options allows you to specify the amount of time that a sensor must remain in a new status before accepting and reporting on that status.

Minimum Time between each States

Critical	<input type="text" value="0"/>	0 secs
Sensor Normal	<input type="text" value="0"/>	0 secs
Sensor Error	<input type="text" value="0"/>	0 secs

The second box displays a set of options which allow you to set the minimum time between each status.

## 10. Enable Calendar

Enable Calendar  On  Off

All	AM											PM												
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

Toggle Working Hours

Report  Do Not Report

To Clear/Set, Click Hour, Day, AM, PM, All.  
 To Clear/Set the Whole Hour, Click a Cell.  
 To Select a Minute, Right Click a Cell; Mouse Over will display minute offset.

Here you have options to display your calendar, you can set hours in the day, and days in the week in which you would like your sensor to report and not report.