
DSCR RECEIVER Configuration Manual



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Introduction

Product Description

The DSCR (DSC Receiver) is an adapter which communicates with DSC one way wireless devices and connects them to any control panel using the 5 relays outputs.

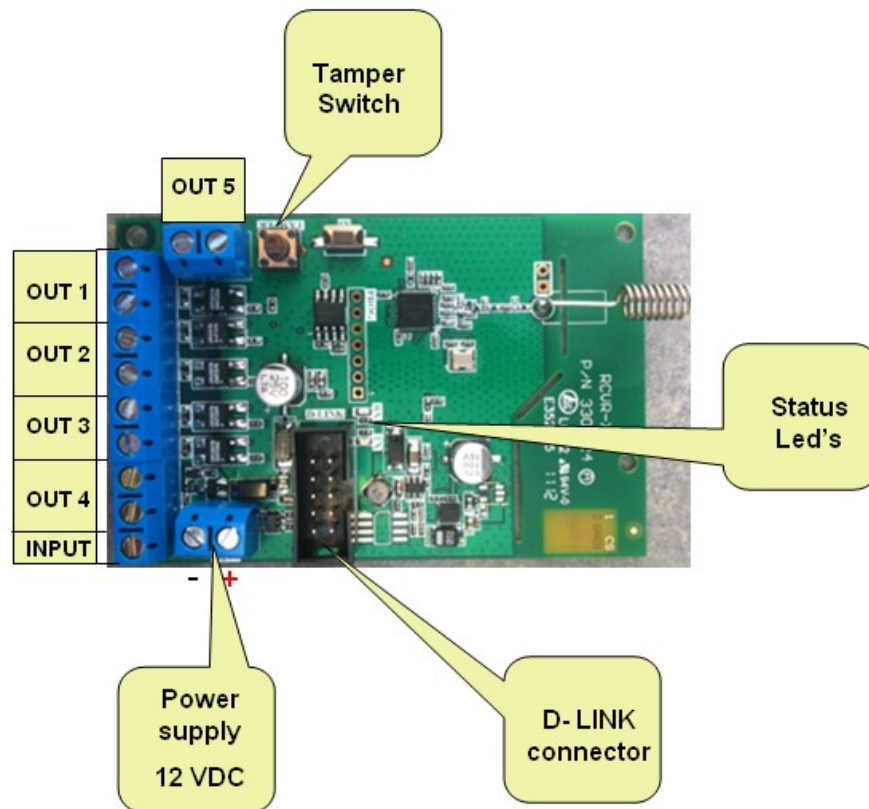
Product Functions

- DSC one way wireless devices compatible
- Supports up to 180 devices.
- Each device can be assign to any output (relay).
- Device to relay association programming through UART interface.
 - Trouble/ Low battery /Tamper/ Supervision indication available via output.
- Local tamper protect.
- System status information is acquired by the device input. (Not supported in all versions)
- Configurable output mode.
- Time adjustable of momentarily event.
- Toggle output mode.

Product Features

- 5 relay (OUT1, OUT2, OUT3, OUT4, and OUT5)
- 1 input status
- 1 push button
- Tamper protection
- Programmable microcontroller with internal flash memory
- Device memory is expandable with external optional memory. (Not supported in all versions)
- 2 indication led's (red, green)
- UART connector D-LINK compatible
- 9~15Vdc, 40mA (use 1A limited power source)
- Operation frequencies: 433 MHz, 868 MHz

Physical Layout



Component	Description
Status LEDs	Green (RX) : flashes shortly on every incoming message Red (TX) :Blinks every second to indicate normal operation
D- LINK connector	Serial port that connects to a PC or laptop for programming.
Power supply	Input 12 VDC
Antenna	RF antenna
Tamper Switch	Activates alarm if cover is removed.
Terminal Block	Outputs 1 , 2 , 3 , 4 , 5 (out 5 marked as TRBL on PCB) Status Input (currently not in use)

CHAPTER 2

Configuring the DSCR Unit

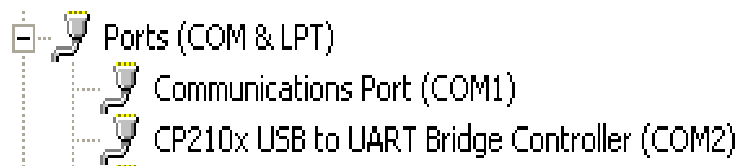
Prerequisites

Before configuring the DSCR do the following

- Make sure you have the D-link cable
- Make sure you have installed the D-LINK cable driver in your PC (Deriver CD included into D-link cable box package)
- Make sure you have the DSCR_ConfigToll application installed in your PC



- Connect the power supply to DSCR power terminal (be noticed of the polarity power)
- Verify red led is blinking every second
- Connect the D-link cable between DSCR module to PC USB port
- On PC , open : Start→settings→control Panel→system→hardware→device manger→ports and verify which com port was open for D-link cable



Note 1: for example, COM 2 was assigned for D-link cable connection





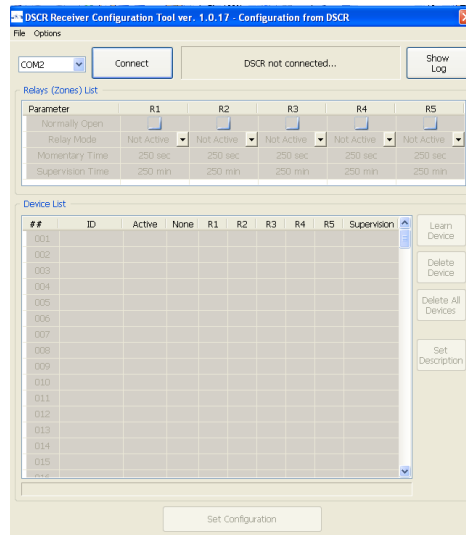
IMPORTANT NOTE

The DSCR module must be connected to the PC using a serial cable before you can run the configuration software.

◆ To Run the configuration software:



.Double-click on the icon .1



.Select the correct COM port number assigned to D-link cable .2



.Click the button .3

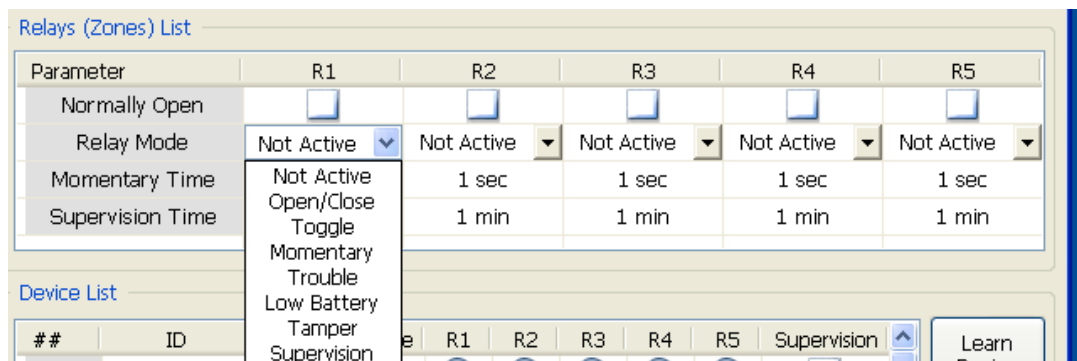
Application will display  on a successful connection .4

Ver. 0.8 – SW version

Ver. 1.0 – HW version

Configuring the Unit

.This section describes how to configure the unit using a local COM port



:The Outputs (Relays R1, R2, R3, R4 and R5) can be programmed to one of the following modes

Relay Mode	Description
Not Active	The relay is disabled
Open/Close	1. if R1 box is unchecked status, the Relay opens on a detection event 2. if R1 box has been checked, relay closed on a detection event
Toggle	on every incoming message the relay will change its mode state
Momentary	The momentary time parameter determines how long the relay will remains in the new state after every new incoming message
Trouble	This mode indicates a trouble event from any programmed device and dedicated for all devices (not relevant for DSC smoke detector 906 model) (Note : this mode disables all other modes) see examples on the next pages (Note : devices known with trouble indication feature are support)
Low Battery	This mode indicates a Low Battery event from any programmed device and dedicated for all devices (Note : this mode disables all other modes) see examples on the next pages
Tamper	This mode indicates a Tamper event from any programmed device and from the receiver either and dedicated for all devices (Note : this mode disables all other modes) see examples on the next pages
Supervision	This mode indicates a loss of communication Supervision event from any programmed device and defined for sending supervision state for all devices (Note : this mode disables all other mode) see examples on the next pages

Momentary Time – setting the momentary time period by clicking on the parameter value (see picture below) and enter new value from 1 to 250 sec

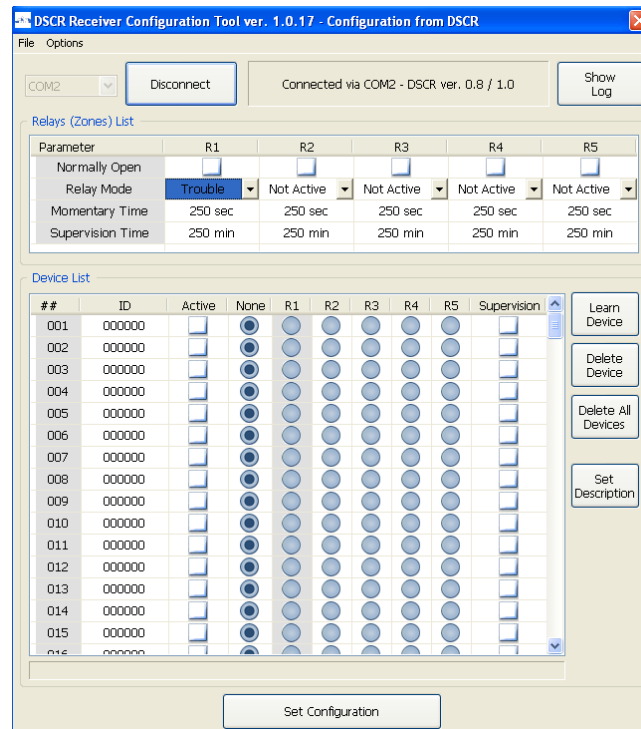
Relays (Zones) List	
Parameter	R1
Normally Open	<input type="checkbox"/>
Relay Mode	Momentary ▼
Momentary Time	10 sec
Supervision Time	1 min

Supervision Time – setting the Supervision time period by clicking on the parameter value (see picture below) and enter new value from 1 to 250 min

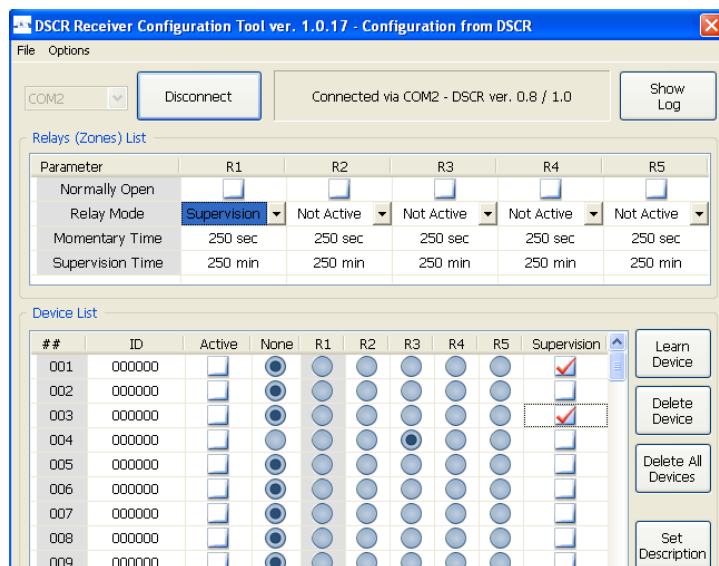
Relays (Zones) List	
Parameter	R1
Normally Open	<input type="checkbox"/>
Relay Mode	Supervision ▼ S
Momentary Time	10 sec
Supervision Time	1 min

Important Note 2: after every change/update on the PC Application installer must press on the **Set configuration** button below to save and load the configuration into the receiver

Example No.1 – Trouble Mode has been selected and as a result all the entire R1 column has been covered with a dark color that indicates the relay R1 is dedicated for trouble events only for all devices .(except DSC smoke detector 906 model) and prevents from defining other modes



Supervision Mode has been selected, and as a result of this all the entire R1 column has been covered with a dark color that indicates the relay R1 is dedicated for supervision events for all devices only, but this is relevant if the installer checked the supervision box column to enable this function



.See below description table of all fields and buttons of the second application part

Field / Button	Description
##	Device Number

Field / Button	Description
ID	Device Identification , device id can be inserted manually by clicking on the specific value or automatically by learning a device procedure mode
ACTIVE	1. Active box should be checked /unchecked in order to activate or deactivate a device, 2. this box is checked automatically after learning a device is successful
NONE	Disables the detection event report only by selecting "none "option, but all other events remain in normal operation (low bat. Trouble, tamper, supervision)
R1 , R2 , R3 , R4 , R5	Outputs Relays 1 to 5 – selectable relays for different operation modes.
SUPERVISION	Check box must be checked in order to activate the supervision report operation (not relevant for devices without supervision function such as wireless keyfob), installer must be aware not to check the supervision box for devices that do not use the supervision function
Learn device button	Starts the learning device procedure by clicking this button (learning procdure will be described on the next pages)
Delete device	Deletes learned device by clicking this button
Delete all devices	Deletes all learned devices by clicking this button
Set description	Used for insert a text description for each device
Set configuration	Saves and sends configuration into DSCR unit

Learning procedure

.To learn a Device, installer must first ensure that the receiver frequency is compatible with all devices

Learning the devices is possible by generating an event from the devices such as opening a tamper switch; create an event; or just clicking on a wireless key fob button

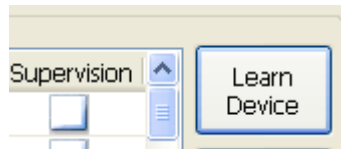
.A device can be learned multiple times and assigned to a different relay for a different function

How to learn a wireless key fob

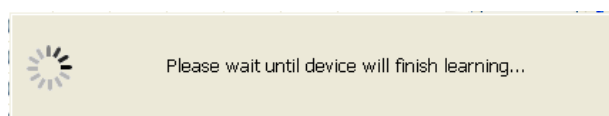
(Step 1: select and position on the device ID number (see the picture below

##	ID	Active
001	000000	<input type="checkbox"/>
002	000000	<input type="checkbox"/>
003	000000	<input type="checkbox"/>

Step 2: Press the learn button



The next message appears as soon as the learn button is pressed



Step 3: installer must select wireless key fob button (ARM button for example) and press on it while the .above message is running

.The next picture indicates learning procedure has been completed successfully

Device List										
##	ID	Active	None	R1	R2	R3	R4	R5	Supervision	
001	643A5D.1	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="button" value="Learn Device"/>
002	643A5D.2	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="button" value="Delete Device"/>
003	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="button" value="Delete All Devices"/>
004	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	
005	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	
006	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	

Step 4: installer should select the relays which will operate according key fob buttons

For example, as per above figure: key fob 001 ID: 643A5D.1 (key no. 1) is assigned to R1

Key fob 002 ID: 643A5D.2 (key no. 2) is assigned to R2

Step 5: repeat steps 1 to 3 for all other key fob buttons

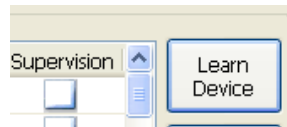
.Note 3: Refer to Note 2

How to learn a wireless PIR detector

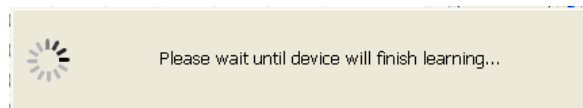
Step 1: select and position on the device ID number, for example location 003 has been selected (see (the picture below

Device List				
##	ID	Active	None	R1
001	643A5D.1	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
002	643A5D.2	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
003	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
004	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
005	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>

Step 2 : Press the learn button



The next message appears as soon the learn button is pressed



Step 3 : installer must press on the tamper switch while above message is running

The next picture indicates a successful learning of PIR detector procedure

Device List										
##	ID	Active	None	R1	R2	R3	R4	R5	Supervision	
001	643A5D.1	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="button" value="Learn Device"/>
002	643A5D.2	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="button" value="Delete Device"/>
003	356056	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="button" value="Delete All Devices"/>
004	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	
005	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	
006	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	

Step 4: select the relays which will operate according to the PIR detector events, R2 has been .selected

Step 5: check the supervision Box for PIR detector if supervision report is required

Step 6: repeat steps 1 to 5 for all others devices

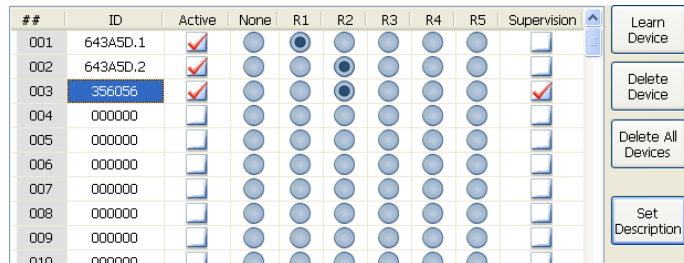
.Note 4: Refer to Note 2

Inserting a Text Description for a device

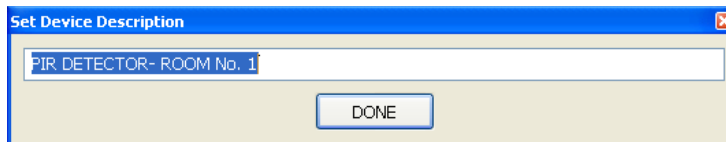
Step 1: select and position on the device ID number, for example location 003 has been selected

##	ID	Active	None	R1	R2
001	643A5D.1	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
002	643A5D.2	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
003	356056	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
004	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
005	000000	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Step 2: Press the Set Description Button



The Next window will open

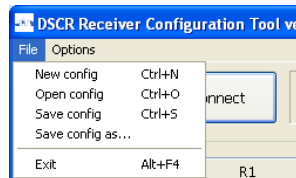


Step 3: Insert text description for a device

Step 4: In order to save all text descriptions installer must save them into a file

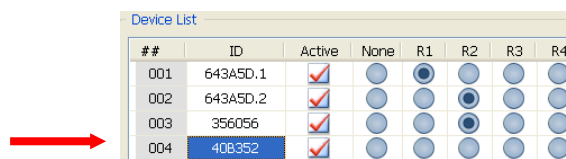
Important Note 5: Text descriptions are not stored into DSCR unit

Step 5: Go to File→save config and save it into a file

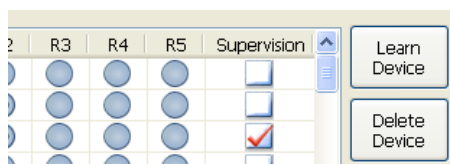


Deleting a device procedure

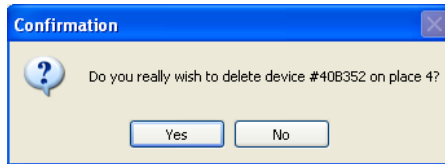
Step 1: select and position on the device ID number to be deleted



Step 2: Press the Delete Device button



Step 3: Press yes or not to confirm

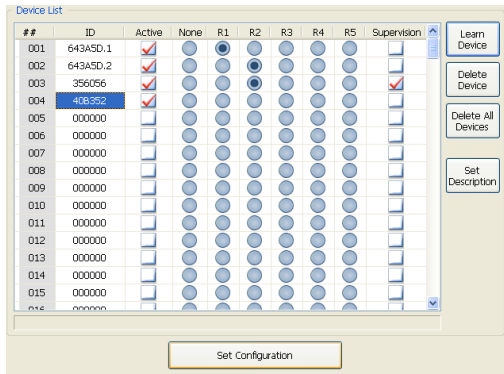


Note 6: refer to Note 2

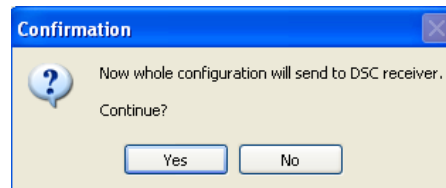
Uploading configuration to DSCR unit

In order to send configuration to DSCR unit

Step 1: Press the Set Configuration button



Step 2: Press yes to send configuration and continue



CHAPTER 3

General information

Voltage input range	9 ~ 15Vdc
Current consumption	40mA
Temp. Range (operation)	-10° ~ +55°C
RF operating range	150m
Operating Frequencies	433.92MHz; 868.35MHz
Com. port	D-Link, 115.2kbps, 8 bit, no parity, 1 stop bit
Dimensions	70mm x 128mm x 26mm
Weight	120g

Standard Compliance

EN 300 220-2
EN 61000-6-3
EN 50130-4
EN 301 489-1
EN 60950-1

RoHS Directive 2002/95/EC

