

# **1WI08**

# 8-channel I/O Expansion module Quick setup guide



## Specifications

#### Number of Inputs/Outputs: 8

- Digital Input: NC, NO, internal 10K pull up resistors to input VDC (10-30V).
- Output: Open Drain 24V/1A. Protection:
  - Short Circuit Protection with Auto Restart
  - Overvoltage Protection (Active Clamp) Thermal Shutdown with Auto Restart
  - Overcurrent Protection

#### AUX output: 10-30V, up to 1A, protection; fused Power supply: DC 10-30 V 200 mA max Current consumption in idle state w/o external devices connected: up to 50mA Maxim's 1-Wire® interface: Dimensions: 73x62x26mm Operating temperature range: -20...+55 °C Module weight: 70g Package weight: 90g

Humidity: 0-90% RH @ 0... +40°C (0-90% RH @ +32... +104°F) (non-condensing)

# Terminals and LED indication

LED	Indication variations	Meaning	
DIMEDIANA	Green on	Power is OK	
(green/red)	Green Off	No power voltage.	
(greenned)	Red blinking fast	1-Wire Bus communication	
01-08	Lights continuously	Output state is ON	
(green/red)	Off	Output state is OFF	

Topkodag	PWR/1W		Termin	al Descriptions:
11M/100	01/02	L	Terminals	Description
	03/04 🗌		AC/DC	Power input 10-30V/ 1A
8-channel Input/Output Expansion	05/06		IO1 – IO8	Input or output depending on the position of the DIP switch
	07/08 🗌		COM	Common terminal
			AUX+	Auxiliary Power, 1A MAX
DC 10-300 Mat 0.13 Inputs / Culputs Power 1A	Inputs / Delputs		1W	Maxim's 1-Wire® interface
ØAC/DC ØAC/DC Ø101 Ø102 Ø103 Ø104 ØAUX+	006 007 008 008 0108			

#### Installation & wiring 2.

## 2.1. Mounting types

Wall mounting. (No need to open enclosure!) -Velcro stick on adhesive fasteners -DIN Rail mounting using adapter. -Flush mounting over electric wall box

Following the connecting diagram, connect the relay contact to the device you wish to control and connect the power supply:

2.1.1. Mounting on DIN rail



Fasten DIN rail adapters to the base of the case

#### Remove the PCB board

2.2. Set up of the controller 1. Open 1WIO8 enclosure



- · Press the top of the case with your fingers in the direction of the arrows [1].
- Then insert a screwdriver [2] on the right side and gently unhook the hook of the case cover
- 2. Upon your needs set the mode of each I/O. It is done by using the switch on the DIP switch [input <-> output] located on PCB
- 3. Connect 1Wire bus between expansion module 1WIO8 and Controller
- 4 Connect needed sensors or relays to Inputs /Outputs
- 5. Connect power supply 10-24VDC to the 1WIO8.



#### 2.3. Wiring diagram for connecting 1WIO8 to the controller via 1-Wire bus



#### Set configuration for TOPKODAS controllers Setting expansion module parameters using SERA2 software With SERA2 software you can change the controller's settings: 1. Download the configuration software SERA2 from

## https://www.topkodas.lt/downloads/ and install it

- 2. Connect the controller to a computer using a mini USB cable
- 3. Launch the configuration software SERA2. The program will automatically recognize the connected device
- 4. Click [Read] to see current controller parameters

5. Go to [Bus Modules > 1 wire bus modules]. On the table should be visible the registered expansion module.



GTalarm3 OUT1(1A)

GTalarm3, CUT2/1A

GTalarn3, OUT4(1A)

GTalarm3, I/O1 (20mA)

GTalarm3 1602 (20mA)

GTalarm3, I/O3 (20mA)

GTalarm3 LED FN

408 ID1 SN 29

GTalarn3, D1 (10nA, Max Votage 3.3VIII)

GTalarm3 D2 (10m8, Max Voltage 3 3VID) GTalarm3, D3 (10mA, Max Voltage 3 3VE)

1V/JOB\_VOB\_SN 29CE052A00000064 1 Wire D0\_Buchaccel NO expander 1VV-IO8, IC4, SN 29CE0B2A000000B4.1-Wire D0, 8-channel I/O expander

1W-IOS, VOS, SN 29CE0E2A000000E4.1-Wire D0, 8-channel VO expander

10UOS UCE SN 29CE0824000000841J0/re D0 & chappel UC expander W-IO8, VO7, SN 29CE082A00000084.1-Wire D0, 8-channel VO expander

W408\_V08\_SN 29CE082A000000B4 1-Wire D0\_8-chappel I/O expander

4 GTalarn3, OUT3/1A

-Events Log

Firmware

Bus Modules

Testing@Monitoring

7. Upon your need Set other parameters of the output. 8. In the same manner, select the required I/O input in the input table SERAZ (GTalarm3) 📄 File 🔌 Settings 🚑 Devices 📓 Read (F5) 🛛 📓 Write (F6) 🛑 Update 🧐 Help System Options



Please note: 1WIO8 inputs can only be NC/NO type. EOL type is not supported

### 9. To save configuration Press [Write]

Ekonome

Remo

Renc

Renc

Retto

Renc

Remo

Renc

Disat

Disat

Disak

Disak

Disek

Disek

USB Connected GTalarm3 052210081737 4G

10. To remove registered 1WIO8 module press cross icon on the [1-Wite Bus Modules] table. And Press [Write]

# Installation & Programming Manual

Scan QR Code to download manual



Website: https://topkodas.lt Email: info@topkodas.lt

https://topkodas.lt/Downloads/media/Manuals/1WIO8 QS EN.pdf