

IT

EN

MANUALE TECNICO
TECHNICAL MANUAL

ONDA



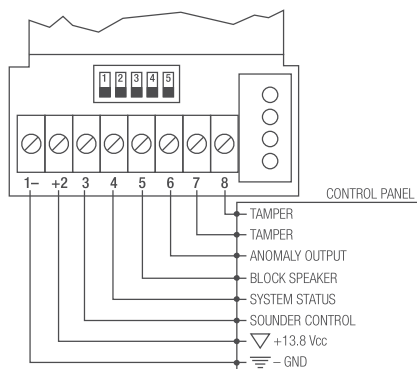
 **VENITEM**

DESCRIPTION

Sounder mod, ONDA with high luminosity and low consumption LED flashing light – anti-opening and anti-removal tamper protection – anti-foam anti-shock system – programmable sound and timing – protected against polarity inversion – microprocessor self-test of: battery and speaker with anomaly negative output - programming of sounder polarity command and system ON/OFF – immediate or permanent optical indication of ON/OFF system – electronic circuit protected against polarity inversion and resin tropicalization against bad weather conditions and humidity – external cover, internal cover and bottom in metal.

CONNECTION SCHEME

TERMINALS	CONNECTIONS
–RIC (1)	NEGATIVE POWER SUPPLY 0V GND
+RIC (2)	POSITIVE POWER SUPPLY +13,8V
+C (3)	SOUNDER CONTROL
STI (4)	ON/OFF - ALARM SYSTEM STATUS NOTICE
BLS (5)	INPUT FOR SOUND INTERRUPTION
OUT ANM (6)	ANOMALY OUTPUT. OPEN COLLECTOR 0V = NO ANOMALY
TAMPER (7)	N.C. SELF-PROTECTION AND ANTI-FOAM
TAMPER (8)	N.C. SELF-PROTECTION AND ANTI-FOAM



BLS. SOUND BLOCK

It activates the sound interruption by giving a negative signal (0V) to terminal 5.

ANOMALY OUTPUT

The sounder is managed by a microcontroller able to check battery recharge, battery status and the speaker; in case of anomaly, open collector terminal (6) opens.

Every 4 hours, the microcontroller automatically performs the battery test. Moreover, other tests are carried out continuously. If the sounder is **correctly** powered, the anomaly output (terminal no. 6) usually **stays at 0V** (current max 50mA). In case a test performed **is not passed**, the anomaly output **disconnects from ground and becomes free**.

At the first sounder powering (13.8V or battery), to enable an easier installation, all anomalies are automatically reset to zero when the cause disappears. After the first alarm or ON/OFF trigger, anomalies are reset to zero only if a command is given to terminal STI or +C. To launch the remote test, take terminal no. 4 (STI) to +12V for 10 seconds and then take voltage away from the terminal. This procedure launches the test lasting 60 seconds. During the test, the sounder controls how it is working and notifies any anomaly through the anomaly output. **To reset anomalies to zero, remove the anomaly cause first, then wait for 10 seconds and then take terminal no. 4 (STI) to 12V for at least 10 seconds. Taking away the command from terminal +C for a short time, all anomalies are reset to zero with the exception of the anomalies concerning the battery. After 4 hours from battery restoration, the sounder performs again the tests thus updating battery anomalies too.**

LOW VOLTAGE SITUATION

Attention: when the sounder power supply (recharge) is lower than 10.5V and the battery voltage is lower than 9.5V, the sounder goes into lock mode to avoid false alarms. As soon as the voltages go up, the sounder starts again to work normally.

TAMPER CONNECTION (ANTI-OPENING AND ANTI-REMOVAL, ANTI-FOAM AND ANTI-SHOCK)

Connect terminals no. 7 and no. 8 to the tamper line coming from the control panel.

DIP-SWITCHES

DIP 1 SOUND TIMING

- Dip-switch 1 in **OFF**: sound timing is 3 minutes (DEFAULT SETTING).
- Dip-switch 1 in **ON**: sound timing is 8 minutes.

DIP 2 SOUNDER CONTROL INPUT POLARITY

NOTE: THE INPUT IS MISSING BY DEFAULT

- Dip-switch 2 in **OFF**: trigger for sounder activation is positive (DEFAULT SETTING).
- Dip-switch 2 in **ON**: trigger for sounder activation is negative.

DIP 3 SOUND TYPE SELECTION

- Dip-switch 3 in **OFF**: sound is INCREASING-CONTINUOUS-DECREASING (DEFAULT SETTING).
- Dip-switch 3 in **ON**: sound is INCREASING-DECREASING.

DIP 4 SYSTEM STATUS OPTICAL SIGNALISATION (ON-OFF IMMEDIATE AND PERMANENT) AND REMOTE TEST INPUT

- Dip-switch 4 in **OFF**: instantaneous ON-OFF situation (DEFAULT SETTING)
- Dip-switch 4 in **ON**: instantaneous ON-OFF situation with right LED flashing intermittently while trigger is given to terminal 4.

By taking command away, all LEDs stay ON for 5 seconds (OFF) and the complete sounder test is launched, with signalization of any anomalies. By giving a command to terminal 4, all LEDs of the flashing light blink 3 times (ON). All anomalies are reset to zero.

DIP 5 INPUT POLARITY OF SYSTEM STATUS OPTICAL SIGNALIZATION

NOTE: DEFAULT INPUT IS GIVING

- Dip-switch 5 in **OFF**: trigger for system status activation is positive (DEFAULT SETTING).
- Dip-switch 5 in **ON**: trigger for system status activation is negative.

MOUNTING

1. Screw the sounder on the wall and check if the tamper works properly;
2. Insert the connection cables through the holes located on the sounder base;
3. If necessary, modify the default settings acting on the DIP-SWITCHES as indicated above;
4. Connect the battery and the power supply to the control panel;
5. Close both internal and external covers using the screws provided;
6. Battery must have UL94-HB flammability rate;
7. Power supply must be of SELV type.

ATTENTION: NOT TO HAVE CONDENSATION IN THE SOUNDER, IT IS IMPORTANT TO AVOID ANY AIR FLOW INSIDE THE DUCT. TO SUCH PURPOSE, ONCE THE SOUNDER IS CONNECTED, SEAL THE HOLE USING SOME SILICON OR ANY OTHER PLASTER. THIS OPERATION PREVENTS CONDENSATION FROM FORMING INSIDE THE SOUNDER; CONDENSATION MOSTLY APPEARS IN WINTER AND IT IS USUALLY CAUSED BY WARM AND HUMID AIR COMING OUT OF THE WALL WHERE THE SOUNDER IS INSTALLED AND PASSING THROUGH THE HOLE LOCATED ON THE SOUNDER BASE.

TECHNICAL FEATURES

Voltage	Rated power supply voltage	13.8 Vdc
	Minimum command +C (3)	4.5 Vdc
	Minimum power supply	10.5 Vdc
	Maximum power supply	15.5 Vdc
Current	Sound consumption from battery	1.3 A +100/-300 mA
	Max from control panel	700 mA $\pm$ 100 mA
	Flashing unit consumption	25 mA $\pm$ 10 mA
	Consumption in stand-by	15mA
	Consumption from control inputs	+0.5 mA @Vc=12V; -0.3 mA @Vc=0V
	Open collector	-50 mA Max
Fundamental frequency		2100 Hz
Sound pressure		106 dB @ 1m
LED flashing unit life		1.000.000 flashes
Protection degree		IP 44
Environmental class		IV (outdoor)
Working temperature conditions		From -25° to +55° C
Timing		Settable according to chart
Control panel command		2 or 3 wires
Size		226x306x78 (H x L x W)
Weight		2.800 gr.

RGBW CIRCUIT MANUAL

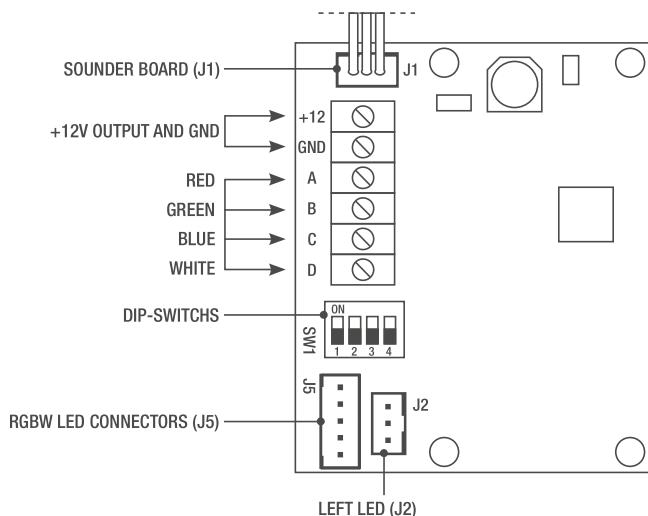
DESCRIPTION

LED RGBW circuit allows LED control according to the needs. The DIP-SWITCHES allow to choose the colour priority and the flashing sequence.

TERMINALS	
+12	POSITIVE POWER SUPPLY
GND	NEGATIVE POWER SUPPLY
A	RED LED INPUT
B	GREEN LED INPUT
C	BLUE LED INPUT
D	WHITE LED INPUT

DIP-SWITCHES

DIP-SWITCHS	FUNCTION	SETTING
1	A,B,C,D INPUTS POLARITY	OFF: Negativo (0V) ON: Positivo (+12V)
2-3	INPUTS FUNCTIONING	2 OFF - 3 OFF: Input priority in sequence (A-1, B-2, C-3, D-4) 2 OFF - 3 ON: Last input come has the priority 2 ON - 3 OFF: Flashing or rotating colors
4	NOT USED	—



WARRANTY

All Venitem products are granted against factory or material defects. In order to improve design and quality of the products, Venitem reserves the right to modify them without prior notice. All faulty or defective items must be returned to the supplier.



DISPOSAL:
This product must be disposed of using the appropriate bins for electrical and electronic products. This product must not be placed in bins for collection of other waste types.



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AZIENDA CERTIFICATA



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