

FDCWS100AV

CONVENTIONAL WALL SOUNDER + VISUAL ALARM DEVICE

COMPATIBILITY

This acoustic device is only compatible with conventional control panels and systems, unless an approved optional module is filled. For more specific information regarding compatibility refer to your fire security system supplier and the technical documentation concerning the control

INSTALLATION - IMPORTANT NOTES

standards and your supplier if the system is going to be installed in particular environments or environments where specific risks exist. Refer to national and international standards in use for spacing and positioning of the fire security's system devices; refer also to specific

This device is to be used only with conventional control panels and systems (check the COMPATIBILITY paragraph),

This device must be wired according to the connection details described in this manual.

Disconnect the sounder line from the control panel before installing this device.

Test the device after installation.

SOUNDER OPENING PROCEDURE

In order to detach the upper sounder body from the base:

- 1) Insert the pins of the compatible key into the holes of one of the two side locking mechanisms
- Turn the key 90° to the left whilst applying light pressure.
- Repeat this step for the second side locking mechanism; the locking mechanism appears as in picture 1 when in the open position (flush).
- 4) Detach the sounder body from the base by putling gently to separate (picture 3).

SOUNDER CLOSING PROCEDURE

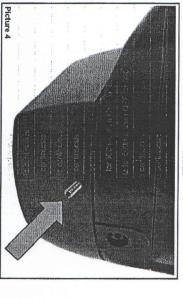
In order to assemble the sounder body to the base:

- 1) Assemble the sounder body to the base using gentle pressure (picture 3).
- 2) Insert the pins of the compatible key into the holes of one of the two side locking mechanisms.
- 3) Turn the key 90° to the right.
- Repeat this step for the second side locking mechanism, starting from point 2; the locking mechanism ap-pears as in picture 2 once closed (recessed).
- 5) To secure use the retaining screws, using the location holes on both sides of the base (picture 4).



TELEDATA S.R.L. - Via Giulietti 8a, 20132, Milan, Italy

2019 Special for 373 Gain 10st 10st 12st 2019 to



www.Teledata-i.com



Suitable, but not EN 54-3 approved for outdoor use.

OUTDOORS AND DAMP ENVIRONMENTS INSTALLATION

sealing pad to the back of the sounder base (picture 5). When installing the sounder outdoors or in a damp environment, carefully apply the self-adhesive

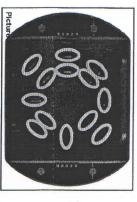


WALL INSTALLATION

- 1) Choose the installation location for the sounder based upon system design regulations
- 2) Fix the sounder base to the wall; the prepared location options for the fixing screws are highlighted in picture 6.

The sounder base is provided with a knockout entry for the system cables, located in the centre of the base (picture 7).

for single or twin cable connection (picture 8). The side wall of the base has prepared drilling points to allow for installation of cable glands; a row of three drilling points are provided to allow

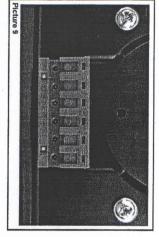






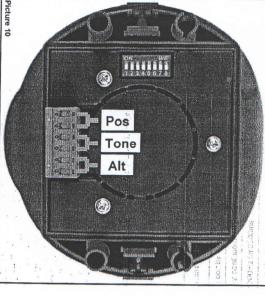
TERMINAL BLOCKS INSTALLATION

The terminal block on the back of the sounder body is installed as illustrated in picture 9.



Connect the sounder to the sounder circuit from the control panel; wining terminal connections are as illustrated in picture 10 and described in table 1; an example of a typical circuit wining arrangement is shown in picture 11.

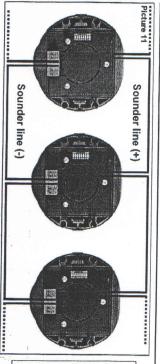
00170 4015 CVF Entities



Picture 10	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	Pos
	Tone Alt
	'magam' (
	Annual State of the State of th

Terminal block number	Terminal block designation Notes	Notes	Y
		1	Usage
1	,	Terminal blocks for the line's positive terminals	Connect to the positive to
2	Pos	(+). These block are shorted: either one can be used.	control panel's sounder circuit.
ω		Terminal blocks for the line's negative terminals	Connect to the negative terminals of
4	Tone	(-). These block are shorted: either one can be used.	The control panel's sounder circuit. Wiring to these terminal blocks activates the main tone set.
S)		Terminal blocks for the line's negative terminals	Connect to the negative terminals of
	Alt	(-). These block are shorted: either one can be used.	the control panel's sounder circuit. Wiring to these terminal blocks acti-
o			vates the alternate tone and

Use of the Tone or Alt terminals enable, respectively, the main tone set or the alternate one; refer to the MAIN TONE SET and the ALTERNATE TONE SET paragraphs.



The sounder line must be capable of providing a surge/power-up current of at least 2 times the sum of the indicated current of all the AV devices on the line itself.

The sounder line must be capable of providing a steady state current of at least 1.5 times the sum of the alarm currents of all the AV devices on the line itself.

www.Teledata-i.com

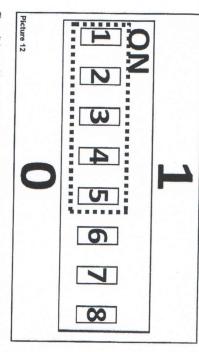
TELEDATA S.R.L. - Via Giulietti 8a, 20132, Milan, Italy

1. 1. 1.

. . .

OUTPUT TONE SETTING

Use the DIP switch on the back of the sounder body to select the tone required; for this function the first five switches are used, highlighted in

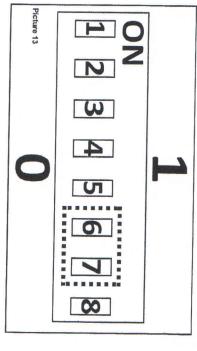


The switches positioned upwards acquire value "1"; on the other hand, if positioned downwards acquire value "0"

- 1) From the MAIN TONE SET table or the ALTERNATE TONE SET table (the choice of the table depends on how the sounder's wiring has been carried out) select the output alarm tone triggered when the sounder is activated.
- 2) Refer to the corresponding line of the "DIP configuration" column to select the five switch selection settings

OUTPUT VOLUME SETTING

Use the DIP switch at the back of the sounder body to select the output volume; in particular, switches 6 and 7, highlighted in picture 13, are



The switches positioned upwards acquire value *1*; on the other hand, if positioned downwards acquire value *0*.

- Select the alarm volume required when the sounder is activated (table 2).
- 2) Refer to the corresponding line of the "DIP configuration" column to set the two volume selection switches

		-			н
			00	LOW	
Table 2			10	MEDIUM LOW	
			01	MEDIUM HIGH	
	All tones	100 dB(A) +/- 3	11	HIGH	
	Notes	dB(A) evaluation	DIP configuration - switch 6 and 7	eunioa attori	

TESTING

- 1) Activate an alarm or evacuate condition at the control panel.
- 2) Check both the audible and visual activation of the sounder/VAD.
- 3) Press the SILENCE SOUNDERS button (or equivalent) and ensure all Sounder type devices have silenced before continuing.

165

TONE 3 - HORIZONTAL PLANE

TONE 3 - VERTICAL PLANE

4) Reset the system from the control panel

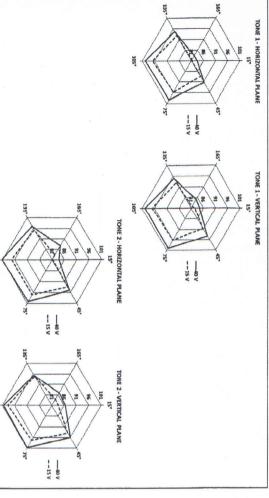
All devices must be tested after installation and thereafter on a periodic basis as required by local codes

ID rating (not certified) **	IP rating (EN 54-3 certified)	Weight (base included)	Diameter	Height (base included)	Maximum tolerated humidity	Tolerated temperature range	VAD flash coverage	Visual Alarm Device (VAD) frequency	Maximum acoustic intensity, volume set to HIGH. Valid for all tones	Acoustic errission frequency range. Valid for all tones	Activated current load range, volume set to HIGH. Valid for all tones	Power supply voltage range	TECHNICAL SPECIFICATIONS *
65	21	290 g	130 mm	192 mm	95% RH (without condensation)	-10 °C /+55 °C	W-2.5-7 (122.5 m³)	0.5 Hz	100 dB(A) ± 3	440 - 2900 Hz	11 - 25 mA at 24 Vdc	15 - 40 Vdc (24 Vdc standard value)	

sult the latest version of the TDS-CWSXX document for information, obtainable from your supplier.

** Independently assessed and certified to IPX5 (not part of the current EN54-3 certification).

ACOUSTIC OPERATIONAL PERFORMANCE



Picture 15 --15 V TONE 4 - HORIZONTAL PLANE -- 15 V -- 15 V TONE 4 - VERTICAL PLANE

-- 15 Y

WARNINGS AND LIMITATIONS

highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serapplication advice should be sought for special risks. Detectors cannot respond correctly if barriers exist between them and the fire location and may be affected Smoke detectors may respond differently to various kinds of smoke particles, thus Our devices use high quality electronic components and plastic materials that are viced and maintained on a regular basis to confirm correct operation

by special environmental conditions Refer to and follow national codes of practice and other internationally recognized FDCWS100AV

design criteria and updated periodically. Appropriate risk assessment should be carried out initially to determine correct | For use in compatible fire detection and alarm system

WARRANTY

All devices are supplied with the benefit of a limited 3 year warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product.

by incorrect handling or usage. This warranty is invalidated by mechanical or electrical damage caused in the field

together with full information on any problem identified.

Full details on our warranty and product's returns policy can be obtained upon Product must be returned via your authorized supplier for repair or replacement

ARGUS SECURITY S.R.L.
Via del Canneto, 14
34015 Muggia (TS)

EN 54-3:2001+A1:2002+A2:2006 EN 54-23:2010

Category rating: W - 2.5 - 7 Provision for external conductors: Pass

Corrosion resistance: Pass Electrical stability: Pass Manufacturer's adjustments: Pass
On-site adjustment of behaviour: Pass Light colour. White Enclosure protection: Pass Humidity resistance: Pass Shock and vibration resistance: Pass Durability: Pass Requirements for software controlled devices: Pass temporal pattern / frequency of flashing: NA / 0.5 Hz wimum light intensity: Pass

Picture 14

四
Щ
×
7
S.R.L
7
£
4
Via
D
0
듶
iulietti
8a
,a
20
<u></u>
3
in
~
\leq
0
2
5
1

www.Teledata-i.com

Ta				
20			á	
	- 1	h	ď	
	- 1	6	r	
-	- 9	ä	٠	
O	1	Œ	١	
4	- 1	L	٥	
		_		

* EN 54-3 certified tones

32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	o	5	4.	3 *	2*		Tone number
LF Sweep (Cramford tone)	US Temporal Pattern HF	Sweep tone (9 Hz)	Sweep tone (3 Hz)	Sweep tone (1 Hz)	Swedish Fire signal	Swedish all dear signal	Siren 2 way ramp (short)	Siren 2 way ramp (long)	Silent	LF Continuous tone BS5839	LF Buzz	LF Back up Alarm	ISO 8201 HF	ISO 8201 LF BS5839 Pt 1 1988	Interrupted tone medium	Interrupted tone	HF Continuous	HF Back up interrupted tone - fast	HF Back up interrupted tone	French tone AFNOR	FP1063.1-Telecom	Australian Evac (slow whoop)	Australian Alert (intermittent tone)	Analogue sweep tone	Atternative warble	Alternative warble	Alternate HF slow sweep	German DIN tone	Slow Whoop (Dutch)	Continuous tone	Warble Tone	Tone designation
800-1000Hz swept every 500ms (2Hz)	(2900Hz for 500ms ON, 500ms OFF) x3, then 1500ms OFF	800-970Hz swept every 111ms (9Hz)	800-970Hz swept every 333ms (3Hz)	800-900Hz swept every 1000ms	660Hz for 150ms, then OFF for 150ms	660Hz continuous	500-1200Hz rising for 250ms, then falling for 250ms	500-1200Hz rising for 3000ms, then falling for 3000ms	No sound	800Hz continuous	800-950Hz swept every 9ms	800Hz for 150ms, then OFF for 150ms	2850Hz for 500ms, then OFF for 500ms	970Hz for 500ms, then OFF for 500ms	1000Hz for 250ms, then OFF for 250ms	800Hz for 500ms,then OFF for 500ms	2800Hz continuous	2800Hz for 150ms, then OFF for 150ms	2800Hz for 1s, then OFF for 1s	554Hz for 100ms, then 440Hz for 400ms	800Hz for 250ms, then 970Hz for 250ms	500-1200Hz sweep for 3750ms, then OFF for 250ms	970Hz for 625ms, then OFF for 625ms	500-600Hz swept every 500ms (2Hz)	500Hz for 250ms, then 600Hz for 250ms	800Hz for 250ms, then 960Hz for 250ms	2350-2900Hz swept every 333ms (3Hz)	1200-500Hz swept every 1000ms (1Hz)	500-1200Hz for 3500ms, then off for 500ms	970Hz continuous tone	800Hz for 500ms, then 1000Hz for 500ms	Tone description
10000)FF 00011	01000	10011	10111	00110	00100	00010	00000	11111	11000	01010	11010	01100	01110	01101	01111	01001	11001	11011	00101	00001	10110	10001	10100	11100	11110	10010	00111	10101	01011	11101	configuration: 1,2,3,4 e 5

500-1200Hz sweep for 3750ms, then OFF for 250ms

500-1200Hz rising for 250ms, then falling for 250ms

œ

2400Hz continuous

500Hz continuous

500Hz continuous

800Hz continuous

800Hz continuous 2800Hz continuous 800Hz continuous 2800Hz continuous

800Hz continuous

970Hz for 500ms, then OFF for 500ms

2850Hz for 500ms, then OFF for 500ms

Table 4

800Hz continuous

 800Hz continuous 800Hz continuous

800Hz continuous 2900Hz confinuous

970Hz continuous 800Hz continuous 800Hz continuous 800Hz continuous

660Hz continuous 800Hz continuous 800Hz continuous

660Hz for 150ms, then OFF for 150ms

Tone	Tone description	DIP switch configuration: 1,2,3,4 e 5
1	800Hz continuous	11101
2	1000Hz continuous tone	01011
ω	500-1200Hz for 3500ms, then off for 500ms	10101
4	800Hz continuous	00111
On .	2400Hz continuous	10010
6	800Hz continuous	11110