

PRODUCT DESCRIPTION

The "Altair Addressable Sounder Base" and the "Altair Addressable Sounder Base with Supplementary Visual Indicator" are acoustic output devices The "Altain Addressable Sounder Base and the Altain Addressable Sounder base with Supplementary visual indicator are acoustic output devices that are activated by the analogue control panel in case of a fire emergency. The "Altain Addressable Sounder Base with Supplementary Visual Indicator" is equipped with a supplementary visual indicator that reinforce the audible warning.

The adaptor bases at the top of both platform sounder models are intended to host analogue Altair detectors

INSTALLATION NOTES

During the installation of these devices follow these rules:

Follow your national installation standards.

Use an analogue control panel that uses the Altair analogue protocol.

Make sure that the analogue loop is not power supplied during its cabling.

Device's terminals must be cabled following the instructions given in this manual; remember that this device is polarity sensitive.

This device can work with a detector installed on its base or stand-alone (without detector); if the sounder is working stand-alone it needs special bling, and a base cover (supplied separately) needs to be installed on top of the base If stand-alone loop cabling is used don't install the detector on the sounder base: change to detector loop cabling instead!

ADDRESSING AND PROGRAMMING

In order to make this device to operate in an installation you need to do two things:

- give the device its unique analogue address

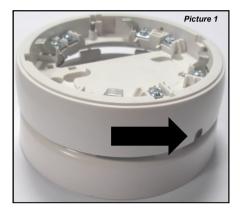
- program the device's operating mode

These two operations are done through a specific hand held programmer connected to the sounder by the means of a specific cable; this cable ends on both sides with a jack plug. For connection, follow this procedure:

- insert one plug into the programmer's socket

- insert the other plug into the platform sounder socket (picture 1 & 2).

This operation can be performed before and after cabling indifferently





ASSIGNING THE ADDRESS

As said before the address number is assigned to the sounder through the programmer; this operation is better explained if you consult the program-

An alternative way of giving an address to the sounder is through automatic addressing from the control panel once all devices on the analogue loop have been installed, but not all panels are designed with this feature, so, check its documentation before choosing this option.

For addressing remember:

All devices on one analogue loop have a unique address.

Addresses range from 1 to 240.

PROGRAMMING THE SOUNDER

Programming the sounder consists only in defining its operating mode by programming a decimal number into it by the use of the programmer; this number is the "operating mode number".

DEFINING THE OUTPUT TONE SET AND VOLUME LEVEL: PROGRAMMING THE OPERATING MODE

The output set of tones that the sounder can emit when activated by the control panel and the output's acoustic level are programmed by the installer before installation: for this purpose different selectable operating modes for the device are used.

One selected operating mode is programmable through an "operating mode number", "written" into the device through the hand-held programming unit used before for the addressing step; the "Set Mod / Set Op" option of the programmer is used for this purpose: consult the programmer's documentation for further details.

In the following paragraphs a description of the possible operating modes (and their corresponding "operating mode numbers") will be given.

THE STANDARD OPERATING MODE

"Operating mode number" for this operating mode is "0"; this simply means that the decimal number "0" must be set into the sounder with the pro-grammer with its "Set Mod / Set Op" option.

Volume level, selected activation sound tone pattern and supplementary visual indicator activation are directly controlled from the control panel

The available tone set for this mode is given in table 1

IMPORTANT NOTE: not all control panels may be able to activate all table 1's listed tones: check the control panel's documentation for gathering

0 SILENT RUNNING - - SILENT 1 DUAL TORE* 800 8 960 250ms - 250ms ALTERNATE WARBLE 2 CONTINUOUS TONE* 1000 Steady CONTINUOUS TONE 3 PULSED TONE 970 500ms ON, 500ms OFF Iso Soul F855839 Pt 11983 4 SLOW WHOOP* 500-1200 3500ms sweep, 500ms OFF DUTCH TONE 5 SWEEP (DN) TONE * 1200-500 1 s sweep (1Hz) GERMAN DIN TONE 6 SWEEP TONE 800 1000 500ms Is SWEEP (CRANFORD SWEEP) 7 DULAL TONE 800 8 1000 500ms - 500ms ALTERNATIVE WARBLE 9 PULSED TONE 2800 1 SON, 15 OFF If BACK UP INTERRUPTED TONE 10 PULSED TONE 2800 1 SOms ON, 150ms OFF If EBACK UP INTERRUPTED TONE - FAST 12 CONTINUOUS TONE 800 Steady If CONTINUOUS TONE ESS39 13 SWEEP TONE (1Hz) 800-900 1 s sweep, 250ms OFF AUSTRALIANS LOW WHOOP 14 SLOW WHOOP 500-1200 3750ms sweep,	TONE	PATTERN	FREQUENCY	RATE	MAIN APPLICATION	Table 1 - Standard mode tone set
2 CONTINUOUS TONE* 1000 Steady CONTINUOUS TONE 3 PULSED TONE 970 500ms ON, 500ms OFF ISO 8201 LF 855839 Pt 1983 4 SLOW WHODP* 500-1200 3500ms sweep, 500ms OFF DUTCH TONE 5 SWEEP [ONI] TONE* 1200-500 1 s sweep (11/z) GERMAN DIN TONE 6 SWEEP TONE 800-1000 500ms LF SWEEP (CRAIPCROB SWEEP) 7 DUAL TONE 800 & 1000 500ms - 250ms ALTERNATIVE WARRABLE 9 PULSED TONE 2800 1 s ON, 1s OFF HF BACK UP INTERRUPTED TONE 10 PULSED TONE 800 Steady LF CONTINUOUS TONE = 500-600 11 PULSED TONE 800 Steady LF CONTINUOUS TONE = 500-600 13 SWEEP TONE (1Hz) 800-900 1 s sweep SWEEP TONE (1Hz) 14 SLOW WHOOP 500-1200 3750ms sweep, 250ms OFF AUSTRALIAN SLOW WHOOP 15 SWEEP TONE (3Hz) SWEEP TONE (3Hz) AUTERNATIVE HF SLOW SWEEP 14 SLOW SWEEP 2350-2900 333ms sweep (0	SILENT RUNNING	-	-	SILENT	
Join Lots Lots <thlots< th=""> Lots Lots <thl< td=""><td>1</td><td>DUAL TONE *</td><td>800 & 960</td><td>250ms - 250ms</td><td>ALTERNATIVE WARBLE</td><td></td></thl<></thlots<>	1	DUAL TONE *	800 & 960	250ms - 250ms	ALTERNATIVE WARBLE	
4 SLOW WHOOP* 500-1200 3500ms sweep, 500ms OFF DUTCH TONE 5 SWEEP (DN) TONE * 1200-500 1s sweep (1Hz) GERMAN DIN TONE 6 SWEEP (DN) TONE * 1200-500 1s sweep (1Hz) GERMAN DIN TONE 6 SWEEP TONE 800-1000 500ms LF SWEEP (CRANFORD SWEEP) 7 DUAL TONE 800 & 1000 250ms ALTERNATIVE WARBLE 9 PULSED TONE 2800 150ms ON, 150ms OFF HF BACK UP INTERRUPTED TONE 10 PULSED TONE 2800 150ms ON, 150ms OFF LF BACK UP ALARM 11 PULSED TONE 2800 150ms ON, 150ms OFF HF BACK UP INTERRUPTED TONE - FAST 12 CONTINUOUS TONE 800 Steady LF CONTINUOUS STONE BS5839 13 SWEEP TONE (1Hz) 800-900 1s sweep SWEEP TONE (1Hz) 14 SLOW WHOOP 500-1200 3750ms sweep (2Hz) ANALOGUE SWEEP TONE (1Hz) 14 SLOW SWEEP 2350-2900 333ms sweep (3Hz) ALTERNATIVE HF SLOW SWEEP 15 SWEEP TONE (3Hz)	2	CONTINUOUS TONE *	1000	Steady	CONTINUOUS TONE	
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7 DUAL TONE 800 & 1000 500ms - 500ms WARBLE TONE 8 DUAL TONE 500 & 600 250ms - 250ms ALTERNATIVE WARBLE 9 PULSED TONE 2800 1s ON, 1s OFF HF BACK UP INTERRUPTED TONE 10 PULSED TONE 800 150ms ON, 150ms OFF LF BACK UP INTERRUPTED TONE - FAST 11 PULSED TONE 2800 150ms ON, 150ms OFF HF BACK UP INTERRUPTED TONE - FAST 12 CONTINUOUS TONE 800 Steady LF CONTINUOUS TONE BSS39 13 SWEEP TONE (1Hz) 800-900 1s sweep SWEEP TONE (1Hz) 14 SLOW WHOOP 500-1200 3750ms sweep (2Hz) ANALGGUE SWEEP TONE 16 SWEEP TONE (3Hz) 800-970 333ms sweep (2Hz) ANTERNUTVE HF SLOW SWEEP 18 PULSED TONE 970 625ms OFF AUSTRALIAN ALERT (INTERMITTENT TONE) 19 TEMPORAL PATTERN 950 1500ms OFF ISO 8201 HF 20 PULSED TONE 800 500ms ON, 500ms OFF INTERRUPTED TONE 21 PULSED TONE 8	5	SWEEP (DIN) TONE *	1200-500	1s sweep (1Hz)	GERMAN DIN TONE	
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21 PULSED TONE 1000 250ms ON, 250ms OFF INTERRUPTED TONE MEDIUM 22 PULSED TONE 2850 500ms ON, 500ms OFF ISO 8201 HF 23 LF BUZZ 800-950 9ms sweep (110Hz) LF BUZZ 24 CONTINUOUS TONE 2800 Steady HF CONTINUOUS 25 SWEEP TONE (9Hz) 800-970 11ms sweep (9Hz) SWEEP TONE (9Hz) 26 PULSED TONE 660 150ms ON, 150ms OFF SWEDISH FIRE SIGNAL 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) X3, 150ms OFF) X3, 150ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep rising, 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	19	TEMPORAL PATTERN	950		US TEMPORAL PATTERN LF	
22 PULSED TONE 2850 500ms ON, 500ms OFF ISO 8201 HF 23 LF BUZZ 800-950 9ms sweep (110Hz) LF BUZZ 24 CONTINUOUS TONE 2800 Steady HF CONTINUOUS 25 SWEEP TONE (9Hz) 800-970 11ms sweep (9Hz) SWEEP TONE (9Hz) 26 PULSED TONE 660 150ms ON, 150ms OFF SWEDISH FIRE SIGNAL 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) X3, 1500ms OFF) X3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	20	PULSED TONE	800	500ms ON, 500ms OFF	INTERRUPTED TONE	
23 LF BUZZ 800-950 9ms sweep (110Hz) LF BUZZ 24 CONTINUOUS TONE 2800 Steady HF CONTINUOUS 25 SWEEP TONE (9Hz) 800-970 11ms sweep (9Hz) SWEEP TONE (9Hz) 26 PULSED TONE 660 150ms ON, 150ms OFF SWEEP TONE (9Hz) 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) x3, 1500ms SWEEP roling, 250ms sweep rising, 250ms US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	21	PULSED TONE	1000	250ms ON, 250ms OFF	INTERRUPTED TONE MEDIUM	
24 CONTINUOUS TONE 2800 Steady HF CONTINUOUS 25 SWEEP TONE (9Hz) 800-970 11ms sweep (9Hz) SWEEP TONE (9Hz) 26 PULSED TONE 660 150ms ON, 150ms OFF SWEEP TONE (9Hz) 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) x3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep railing SIREN 2 WAY RAMP (SHORT)	22	PULSED TONE	2850	500ms ON, 500ms OFF	ISO 8201 HF	
25 SWEEP TONE (9Hz) 800-970 11ms sweep (9Hz) SWEEP TONE (9Hz) 26 PULSED TONE 660 150ms ON, 150ms OFF SWEEP TONE (9Hz) 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) X3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep railing SIREN 2 WAY RAMP (SHORT)	23	LF BUZZ	800-950	9ms sweep (110Hz)	LF BUZZ	
26 PULSED TONE 660 150ms ON, 150ms OFF SWEDISH FIRE SIGNAL 27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) X3, 1500ms OFF) X3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep rising, 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	24	CONTINUOUS TONE	2800	Steady	HF CONTINUOUS	
27 DUAL TONE 554 & 440 100ms - 400ms FRENCH TONE AFNOR 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) x3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep railing SIREN 2 WAY RAMP (SHORT)	25	SWEEP TONE (9Hz)	800-970	11ms sweep (9Hz)	SWEEP TONE (9Hz)	
28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL 29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) x3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	26	PULSED TONE	660	150ms ON, 150ms OFF	SWEDISH FIRE SIGNAL	
29 TEMPORAL PATTERN 2900 (500ms ON, 500ms OFF) x3, 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep railing SIREN 2 WAY RAMP (SHORT)	27	DUAL TONE	554 & 440	100ms - 400ms	FRENCH TONE AFNOR	
29 TEMPORAL PATTERN 2900 1500ms OFF US TEMPORAL PATTERN HF 30 2 WAY RAMP (SHORT) 500-1200 250ms sweep rising, 250ms sweep rising, 250ms SIREN 2 WAY RAMP (SHORT)	28	CONTINUOUS TONE	660		SWEDISH ALL CLEAR SIGNAL	
30 2 WAT KAMP (SHOKT) SU0-1200 Sweep falling SIKEN 2 WAT KAMP (SHOKT)	29	TEMPORAL PATTERN	2900	1500ms OFF	US TEMPORAL PATTERN HF	
24 DUAL TONS 000 8 070 250mg 250mg 504052 4 TELECOM	30	2 WAY RAMP (SHORT)	500-1200		SIREN 2 WAY RAMP (SHORT)	
31 DUALTUNE 800 & 970 ZOUTIS P200TIS P200TIS P200TIS	31	DUAL TONE	800 & 970	250ms – 250ms	FP1063.1 - TELECOM	

THE 1st OPERATING (COMPATIBILITY) MODE - FACTORY SETTING DEFAULT MODE

In order to preserve the compatibility of this device with other Altair protocol compatible sounders, it is possible to program this sounder as a standard sounder with its relative tone set.

Volume level can be programmed directly on the device through the "operating mode number".

The tone set available in this mode for the device can be found in table 2. The desired operating tone must be selected on the control panel.

	TONE SELECTED FROM CONTROL PANEL	PATTERN	FREQUENCY	RATE	MAIN APPLICATION	
	1	DUAL TONE *	800 & 960	250ms - 250ms	ALTERNATIVE WARBLE	
	2	CONTINUOUS TONE *	1000	Steady	CONTINUOUS TONE	
	3	PULSED TONE	970	500ms ON, 500ms OFF	ISO 8201 LF BS5839 Pt 1 1983	
Table 2 - 1st operating (compatibility) mode tone set (default tone set) * Tones in I					* Tones in bold are LPCB certified	

Table 2 - 1st operating (compatibility) mode tone set (default tone set)

Four different "operating mode numbers" for this mode can be programmed into the device, selectable on the chosen volume level's basis (table 3).

			1
	VOLUME LEVEL DESCRIPTION	OPERATING MODE NUMBER	Table 3 - Mode and volume
	LOW	1	operating mode numbers
	MEDIUM	65	
	HIGH	129 (FACTORY DEFAULT)	
al	EXTRA-HIGH	193	

"Operating mode number" "129" is the number programmed into the sounder when it comes out of the factory

THE 2nd OPERATING (COMPATIBILITY) MODE

In order to preserve the compatibility of this device with other Altair protocol compatible sounders, it is possible to program this sounder as a Dutch sounder with its relative tone set.

Volume level can be programmed directly on the device through the "operating mode number"

The tone set available in this mode for the device can be found in table 4. The desired operating tone must be selected on the control panel.

TONE SELECTED FROM CONTROL PANEL	PATTERN	FREQUENCY	RATE	MAIN APPLICATION
1	SLOW WHOOP *	500-1200	3500ms sweep, 500ms OFF	DUTCH TONE
2	SWEEP (DIN) TONE *	1200-500	1s sweep (1Hz)	GERMAN DIN TONE
3	CONTINUOUS TONE *	1000	Steady	CONTINUOUS TONE
Table 4 - Dutch tone se	* Tones in bold are LPCB certified			

Table 4 - Dutch tone set table

Four different "operating mode numbers" for this mode can be programmed into the device, selectable on the chosen volume level's basis (table 5).

VOLUME LEVEL DESCRIPTION	OPERATING MODE NUMBER	Table 5 - Mode and volume
LOW	2	operating mode numbers
MEDIUM	66	
HIGH	130	
EXTRA-HIGH	194	

THE OPERATING MODES FROM 3 TO 31

Other 28 operative modes are virtually selectable for this sounder; for these modes use table 6.

TONE	PATTERN	OPERATING MODE NUMBER (LOW VOLUME)	OPERATING MODE NUMBER (MEDIUM VOLUME)	OPERATING MODE NUMBER (HIGH VOL- UME)	OPERATING MODE NUMBER (EXTRA-HIGH VOLUME)	Table 6 - Mode and volume operating mode numbers
3	PULSED TONE	3	67	131	195	
4	SLOW WHOOP	4	68	132	196	
5	SWEEP (DIN) TONE	5	69	133	197	
6	SWEEP TONE	6	70	134	198	
7	DUAL TONE	7	71	135	199	
8	DUAL TONE	8	72	136	200	
9	PULSED TONE	9	73	137	201	
10	PULSED TONE	10	74	138	202	
11	PULSED TONE	11	75	139	203	
12	CONTINUOUS TONE	12	76	140	204	
13	SWEEP TONE (1Hz)	13	77	141	205	
14	SLOW WHOOP	14	78	142	206	
15	SWEEP TONE	15	79	143	207	
16	SWEEP TONE (3Hz)	16	80	144	208	
17	SLOW SWEEP	17	81	145	209	
18	PULSED TONE	18	82	146	210	
19	TEMPORAL PATTERN	19	83	147	211	
20	PULSED TONE	20	84	148	212	
21	PULSED TONE	21	85	149	213	
22	PULSED TONE	22	86	150	214	
23	LF BUZZ	23	87	151	215	
24	CONTINUOUS TONE	24	88	152	216	
25	SWEEP TONE (9Hz)	25	89	153	217	
26	PULSED TONE	26	90	154	218	
27	DUAL TONE	27	91	155	219	1
28	CONTINUOUS TONE	28	92	156	220	
29	TEMPORAL PATTERN	29	93	157	221]
30	2 WAY RAMP (SHORT)	30	94	158	222	
31	DUAL TONE	31	95	159	223	

Tones in table 6 correspond exactly to the tones from 3 to 31 given in table 1.

Suppose now, for example, that you want to have operating mode 12 with a medium volume for the device you are programming. If you look at row 12 under the "OPERATING MODE NUMBER (MEDIUM VOLUME)" column you find a value corresponding to "76"; program this number into the device with the hand-held program

What you will have is the sounder that when activated has a medium volume and the operative tone given in table 7.

TONE SELECTED FROM CONTROL PANEL	PATTERN	FREQUENCY	RATE	MAIN APPLICATION
1	CONTINUOUS TONE	800	Steady	LF CONTINUOUS TONE BS5839

Table 7 - Operating mode 12's operating tone

OPERATING MODE REPROGRAMMING

Operating mode number can be reprogrammed after the wiring of the device has been made and with the sensor is installed onto the platform sound-

when the programming lack is inserted into the device, the sounder will be excluded from the loop and the control panel will signal a disconnection fault (until the jack plug is extracted from the device).

* Tones in bold are LPCB certified

CEILING FIXING

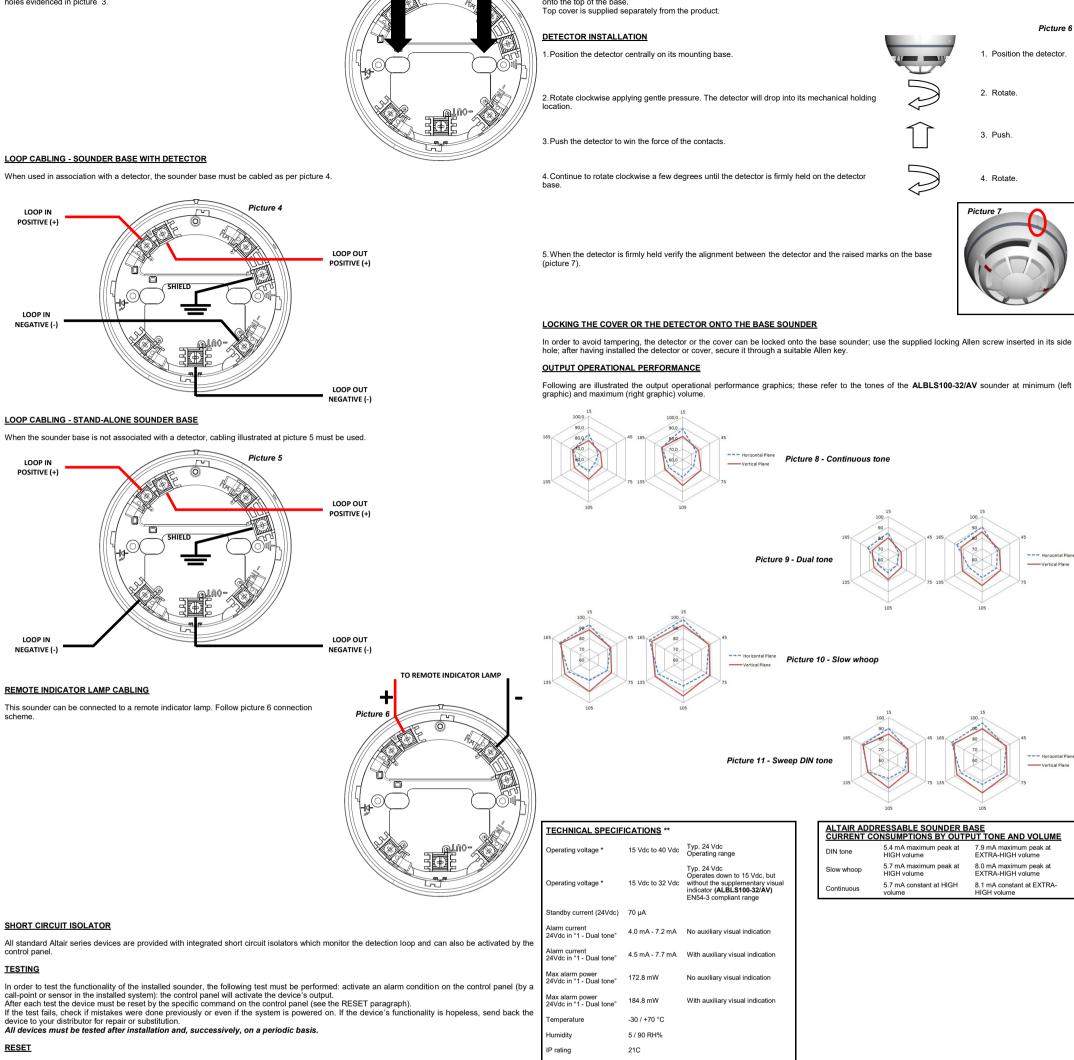
You can fix the platform sounder to the ceiling by inserting the screws through the device's holes evidenced in picture 3.

Picture 3

0

BASE COVER INSTALLATION

If you want to use the platform sounder as a stand-alone device (without the detector installed on it), you must insert and install securely its cover onto the top of the base



To reset the sounder device from an activated condition or a functional fault (raised and indicated by the control panel solely), it is necessary to: 1) solve the cause of the abnormal condition

scheme

TESTING

RESET

2) send the reset command from the control panel

Performing sequentially those two operations, the sound output and/or fault condition will deactivate / resolve.

* Operates down to 15 Vdc, but without auxiliary visual indication. ** Check latest version of document TDS-ALBLSXX32 for further data, obtainable from your supplier.

Application

nvironmen

Type A Indoor use only

Per EN 54-3

LTAIR ADDRESSABLE SOUNDER BASE URRENT CONSUMPTIONS BY OUTPUT TONE AND VOLUME					
UKRENT					
IN tone	5.4 mA maximum peak at HIGH volume	7.9 mA maximum peak at EXTRA-HIGH volume			
low whoop	5.7 mA maximum peak at HIGH volume	8.0 mA maximum peak at EXTRA-HIGH volume			
ontinuous	5.7 mA constant at HIGH volume	8.1 mA constant at EXTRA- HIGH volume			

WARNINGS AND LIMITATIONSConstructionComponents and plastic materials that are highly resistant to environ mental deterioration. However, after 10 years of continuous operation, it is advisable to replace the device in order to minimize the risk of reduced performance caused by external factors. Ensure that this device of only used with compatible control panels.Compatible control panelsDetection systems must be checked, serviced and maintained on a regular basis to confirm correct operation, systems must be checked, serviced marking or special risks.Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental confilms. Refer to and follow national codes of practice and other international recognized fire engineering standards.Appropriate risk assessment should be carried out initially to determine correct design criteria and update teriodically.Ex4-32001-A112002+ 4-22.006WARRANCYWARRANCYAppropriate risk assessment should be carried out initially to determine correct design criteria and update teriodically.Ex4-32001-A112002+ 4-22.006WARRANCYWARRANCYAppropriate risk assessment should be carried out initially to determine orrect design criteria and update teriodically.Ex4-32001-A112002+ 4-22.006WarrenetsWarrenets of the production date indicated on each product. This warrenty is invalidated by autorized specified for epair or replacement together with full information on any product must be returned.Ex4-32001-A112002+ 4-22.006WarrenetsWarrenetsFull details on our warranty and product's returns policy can be obtained upon request.Ex4-32001-A112002+ 4-22.006WarrenetsWarrenetsFull details on our warranty		
Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. AT5110CPR AT5110UK Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically. EN 54-3:2001+A1:2002+ +A2: 2006 WARRANTY All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufact turing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. ALBLS100-32/AV is not intended to comply with the test of EN 54-23 Full details on our warranty and product's returns policy can be obtained upon request. For use in compatible fire detection and alarm system	Our devices use high quality electronic components and plastic materials that are highly resistant to environ- mental 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, serviced and maintained on a regular basis to confirm correct opera- tion. Smoke sensors may respond differently to various kinds of smoke particles, thus application advice	ARGUS SECURITY S.R.L. Via del Canneto, 14 34015 Muggia (TS) Italy
periodically.EN 54-3:2001+A1:2002+ +A2: 2006WARRANTYAll devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufactor turing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identifiedEN 54-3:2001+A1:2002+ +A2: 2006Full details on our warranty and product's returns policy can be obtained upon request.For use in compatible fire detection and alarm system	special environmental conditions. Refer to and follow national codes of practice and other internationally	AT5110CPR
	periodically. WARRANTY All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufac- turing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified.	+A2: 2006 ALBLS100-32/AV is not intended to comply with the requirements of EN 54-23 ALBLS100-32 ALBLS100-32/AV For use in compatible fire detection and alarm system