





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

In order to preserve the compatibility of this device with other Argus Security's 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.

6	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 bold are LPCB certified

Table 3 - Mode and volume operating mode numbers

nto the device, selectable on the chosen volume level's basis (table 3).

Tour amoretic operating mode numbers for this mode start be programmed into				
VOLUME LEVEL DESCRIPTION	OPERATING MODE NUMBER			
LOW	1			
MEDIUM	65			
HIGH	129 (FACTORY DEFAULT)			
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 Argus Security's Altair protocol compatible sounders, it is possible to program this

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 set table

l	Four different "operating mode numbers	" for this mode can be programmed into the	levice, 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	
	EVTRA HICH	104	

# THE OPERATING MODES FROM 3 TO 31

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

TONE	PATTERN	MODE NUMBER (LOW VOLUME)	(MEDIUM VOLUME)	(HIGH VOL- UME)	(EXTRA-HIGH VOLUME)
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
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

Table 6 - Mode and volume operating mode numbers

#### PRODUCT DESCRIPTION

The "Altair Addressable Sounder Base" and the "Altair Addressable Sounder Base with Supplementary Visual Indicator" are acoustic output devices The Allain Addressable Sounder Base and the Allain Addressable Sounder base with Supplementary visual indicator are accusate output devices that are activated by the analogue control panel in case of a fire emergency.

The "Altair Addressable Sounder Base with Supplementary Visual Indicator" is equipped with a supplementary visual indicator that reinforce the

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 Argus Security's 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 <u>bling, and a base cover (supplied separately) needs to be installed on top of the base</u>

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





node tone set

#### **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

## 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. mentation 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

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

"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 programmer 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.

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

Table 1 - Standard FREQUENCY PATTERN MAIN APPLICATION TONE RATE SILENT RUNNING SILENT 250ms - 250ms ALTERNATIVE WARBLE **DUAL TONE** \* 800 & 960 CONTINUOUS TONE \* 1000 CONTINUOUS TONE Steady ISO 8201 LF BS5839 Pt 1 1983 500ms ON, 500ms OFF PULSED TONE 970 SLOW WHOOP 500-1200 3500ms sweep, 500ms OFF **DUTCH TONE** SWEEP (DIN) TONE 4 1200-500 1s sweep (1Hz) **GERMAN DIN TONE** SWEEP TONE 800 -1000 500ms LF SWEEP (CRANFORD SWEEP) 500ms - 500ms WARBLE TONE **DUAL TONE** 800 & 1000 **DUAL TONE** 500 & 600 250ms - 250ms ALTERNATIVE WARBLE 1s ON, 1s OFF PULSED TONE 2800 HF BACK UP INTERRUPTED TONE LF BACK UP ALARM 10 PULSED TONE 800 150ms ON, 150ms OFF HF BACK UP INTERRUPTED TONE 11 PULSED TONE 150ms ON, 150ms OFF 2800 FAST CONTINUOUS TONE 12 Steady LF CONTINUOUS TONE BS5839 13 SWEEP TONE (1Hz) 800-900 1s sweep SWEEP TONE (1Hz) 14 SLOW WHOOP 500 -1200 3750ms sweep, 250ms OFF AUSTRALIAN SLOW WHOOF 500ms sweep (2Hz) 15 SWEEP TONE 500-600 ANALOGUE SWEEP TONE 333ms sweep (3Hz) SWEEP TONE (3Hz) 16 SWEEP TONE (3Hz) 800-970 17 SLOW SWEEP 2350-2900 333ms sweep (3Hz) ALTERNATIVE HF SLOW SWEEP AUSTRALIAN ALERT (INTERMITTEN 625ms ON. 625ms OFF 18 PULSED TONE 970 TONE) (500ms ON, 500ms OFF) x3, 1500ms OFF 19 TEMPORAL PATTERN 950 US TEMPORAL PATTERN LF 20 PULSED TONE 800 500ms ON, 500ms OFF INTERRUPTED TONE 21 PULSED TONE 1000 250ms ON, 250ms OFF INTERRUPTED TONE MEDIUM 22 PULSED TONE 2850 500ms ON, 500ms OFF ISO 8201 HF 23 800-950 9ms sweep (110Hz) LF BUZZ LF BUZZ 24 Steady HF CONTINUOUS CONTINUOUS TONE 2800 11ms sweep (9Hz) 25 SWEEP TONE (9Hz) 800-970 SWEEP TONE (9Hz) 26 150ms ON, 150ms OFF SWEDISH FIRE SIGNAL PULSED TONE 27 554 & 440 100ms - 400ms FRENCH TONE AFNOR DUAL TONE 28 CONTINUOUS TONE 660 Steady SWEDISH ALL CLEAR SIGNAL (500ms ON, 500ms OFF) x3, 29 TEMPORAL PATTERN 2900 US TEMPORAL PATTERN HF 1500ms OFF 250ms sweep sweep falling ep rising, 250ms 30 2 WAY RAMP (SHORT) 500-1200 SIREN 2 WAY RAMP (SHORT) 250ms – 250ms DUAL TONE 800 & 970 FP1063.1 - TELECOM

\* Tones in bold are LPCB certified

TONE	PATTERN	OPERATING MODE NUMBER (LOW VOLUME)	MODE NUMBER (MEDIUM VOLUME)	MODE NUMBER (HIGH VOL- UME)	MODE NUMBEI (EXTRA-HIGH VOLUME)
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
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 nu device with the hand-held programn

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

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

Table 7 - Operating mode 12's operating tone

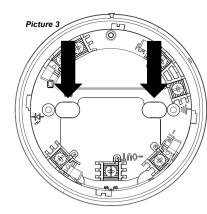
## OPERATING MODE REPROGRAMMING

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-

It is suggested to disable the loop before reprogramming the platform sounder; nevertheless this operation can be carried out with the loop active, but fault (until the jack plug is extracted from the device).

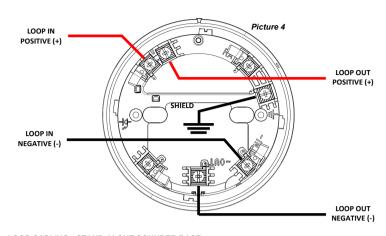
#### **CEILING FIXING**

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



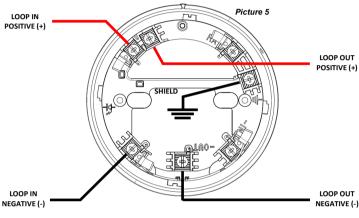
#### **LOOP CABLING - SOUNDER BASE WITH DETECTOR**

When used in association with a detector, the sounder base must be cabled as per picture 4.



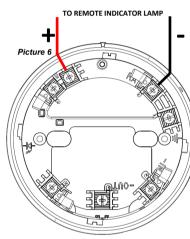
#### LOOP CABLING - STAND-ALONE SOUNDER BASE

When the sounder base is not associated with a detector, cabling illustrated at picture 5 must be used.



### REMOTE INDICATOR LAMP CABLING

This sounder can be connected to a remote indicator lamp. Follow picture 6 connection



## SHORT CIRCUIT ISOLATOR

All standard Altair series devices are provided with integrated short circuit isolators which monitor the detection loop and can also be activated by the control panel

## **TESTING**

In order to test the functionality of the installed sounder, the following test must be performed: activate an alarm condition on the control panel (by a

call-point or sensor in the installed system): the control panel will activate the device's output.

After each test the device must be reset by the specific command on the control panel (see the RESET paragraph).

If the test fails, check if mistakes were done previously or even if the system is powered on. If the device's functionality is hopeless, send back the device to your distributor for repair or substitution.

All devices must be tested after installation and, successively, on a periodic basis.

## RESET

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 2) send the reset command from the control panel

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

#### 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 Top cover is supplied separately from the product.

#### **DETECTOR INSTALLATION**

1. Position the detector centrally on its mounting base.

2. Rotate clockwise applying gentle pressure. The detector will drop into its mechanical holding location.

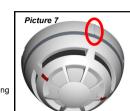
3. Push the detector to win the force of the contacts.

4. Continue to rotate clockwise a few degrees until the detector is firmly held on the detector

5. When the detector is firmly held verify the alignment between the detector and the raised marks on the base (picture 7).

## LOCKING THE COVER OR THE DETECTOR ONTO THE BASE SOUNDER

In order to avoid tampering, the detector or the cover can be locked onto the base sounder; use the supplied locking Allen screw inserted in its side hole; after having installed the detector or cover, secure it through a suitable Allen



Picture 6

1. Position the detector

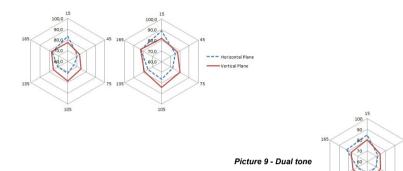
2. Rotate

3. Push

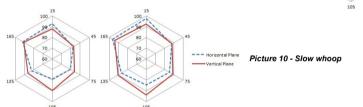
4. Rotate

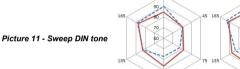
#### **OUTPUT OPERATIONAL PERFORMANCE**

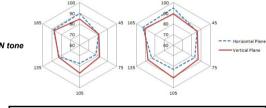
Following are illustrated the output operational performance graphics; these refer to the tones of the **HFI-ABSB-05** sounder at minimum (left graphic) and maximum (right graphic) volume.



Picture 8 - Continuous tone







/	TECHNICAL SPECIFICATIONS **				
	Operating voltage *	15 Vdc to 40 Vdc	Typ. 24 Vdc Operating range		
	Operating voltage *	15 Vdc to 32 Vdc	Typ. 24 Vdc Operates down to 15 Vdc, but without the supplementary visual indicator (HFI-ABSB-05) EN54-3 compliant range		
	Standby current (24Vdc)	70 µA			
	Alarm current 24Vdc in "1 - Dual tone"	4.0 mA - 7.2 mA	No auxiliary visual indication		
	Alarm current 24Vdc in "1 - Dual tone"	4.5 mA - 7.7 mA	With auxiliary visual indication		
	Max alarm power 24Vdc in "1 - Dual tone"	172.8 mW	No auxiliary visual indication		
	Max alarm power 24Vdc in "1 - Dual tone"	184.8 mW	With auxiliary visual indication		
	Temperature	-30 / +70 °C			
	Humidity	5 / 90 RH%			
	IP rating	21C			
	Application environment	Type A Indoor use only	Per EN 54-3		

<sup>\*</sup> Operates down to 15 Vdc, but without auxiliary visual indication.
\*\* Check latest version of document TDS-ALBLSXX32 for further data

ALTAIR ADDRESSABLE SOUNDER BASE CURRENT CONSUMPTIONS BY OUTPUT TONE AND VOLUME					
DIN tone	5.4 mA maximum peak at HIGH volume	7.9 mA maximum peak at EXTRA-HIGH volume			
Slow whoop	5.7 mA maximum peak at HIGH volume	8.0 mA maximum peak at EXTRA-HIGH volume			
Continuous	5.7 mA constant at HIGH volume	8.1 mA constant at EXTRA- HIGH volume			

## WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are 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, serviced and maintained on a regular basis to confirm correct operation. Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks.

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.

Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

# WARRANTY

All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufacturing 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.

Full details on our warranty and product's returns policy can be obtained upon request.



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Hyfire Wireless Fire Solutions Limited - Unit B12a, Holly Farm Business Park, Honiley, Warwickshire, CV8 1NP - United Kingdom

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

HFI-ABSB-05 is not intended to comply with the requirements of EN 54-23 HFI-ABS-05 HFI-ABSB-05

For use in compatible fire detection and

Type A For indoor use only