

REACH Wireless®

Sounder Base



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Product REACH Wireless Sounder Base

Part No. RW1300-110APO

Digital Communication Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO.

See product for more detail.

Approvals





Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

Number of Tone Pairs 16 (see table 4) Volume Levels Four (see table 3)

88 - 91 dBA (tone dependant) Sound Output (Typical)

Communication Range between Loop-Interface and Devices

100 m (in open space)

Field Device Radio Frequency

Channel Pairs

22 pairs

Radiated Power 14 dBm (25 mW)

2x VARTA CR123A Lithium 3 V, Battery Type

1250mAh typical

Battery Lifespan Five years in normal operation with

good signal strength (no dropped

messages)

-10°C to +55°C Operating Temperature

Maximum Relative Humidity

(non-condensina)

IP Rating IP 21C (Type A Indoor Use) EN54-7, EN54-5 Class P, EN54-25 Standards and approvals

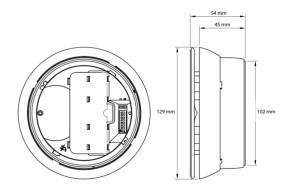
129 mm diameter x 54 mm height Dimensions Weight (including batteries)

190 g

Product information

The RW1300-110APO is a wireless analogue addressable sounder base that can be used as a stand-alone notification device (with a blanking cap, see next page) or as a combined solution with a REACH Wireless detector.

- · Compatible only with REACH Wireless
- 16 number of tone settings (primary and secondary for alert and evacuation), selectable via on-board DIL **Switches**
- Four Volume Settings
- Bi-directional wireless communication
- · Dual channel redundancy
- · Five year battery life
- · Five year product warranty



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All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.











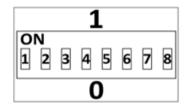


Status LED

The REACH Wireless Sounder Base includes a 360° LED indicator which to indicate status conditions. See table 1.

Table 1: REACH Wireless Device Status & LED Indication									
	LED Indication								
Device Status	Tamper Not Activated	Tamper Activated							
Power Up	Blinks gree	n four times							
Power Up (dip-switch ON)	Blinks red	four times							
Entering Wake-Up	Blinks alternatively green/red four times								
Link Success	Blinks green four times, then repeats								
Link Failure	Enters wake-up mode and signals 'Entering wake-up mode' followin this failure								
Normal Condition	LED off	LED off							
Activation	LED off	Red on							
Battery Faults	LED off	Amber blinking every 5s							
Tamper Fault	LED off								
Replaced	Blinks amber two times								

Tone & Volume Selection DIP Switch Settings



Device Addressing

Device addressing is handled by the REACH Wireless Loop-Interface device (RW1700-030APO).

Devices are soft-addressed automatically when pairing with the Loop Interface and can be changed manually. Hardaddressing using Apollo XPERT cards are not supported.

Table 2: REACH Wireless DIP Switch Functionality **DIP Switch DIP Switch Group Function** Notes Number 2 Check Tone Table 3 Tone Selection (Table 6) 4 5 6 Check Volume Volume Selection Table (Table 3) 7 8 N/A High/Low Power LED Output

Table 3: REACH Wireless Volume Table									
Volume	DIP Configuration								
High*	11								
Medium High	01								
Medium Low	10								
Low	00								

^{*}EN54-3 certified, for Tone Table (Table 6), see appendix

Communication

REACH Wireless Devices use 'radio-frequency' wireless communication to connect to the Loop-Interface.

The Loop-Interface (RW1700-030APO) translates the wireless communication into wired Apollo protocol communication, with each device addressable individually by the fire panel. See datasheets for the Loop-Interface for more information.

Base Compatibility

This device is compatible with the following detector products (see table 4). It can also be used standalone with a blanking cap (see table 5).

Table 4: REACH Wireless Detector Compatibility										
Part Number	Product Name									
RW1000-400AP0	REACH Wireless Heat Detector									
RW1000-600AP0	REACH Wireless Optical Smoke Detector									
RW1000-700AP0	REACH Wireless Multisensor Optical/Heat Detector									

Table 5: REACH Wireless Blanking Cap Compatibility									
Part Number	Product Name								
RW1300-010	REACH Wireless AV Base Cap - White								
RW1300-020	REACH Wireless AV Base Cap - Red								

Maintenance and Service

Maintenance must be performed in accordance with all applicable standards. Clean the detector externally using a soft damp cloth. For full cleaning and recalibration detectors should be returned to Apollo Fire Detectors.

Batteries

REACH Wireless devices are supplied with two CR123 batteries, battery A and B. The device switches periodically between the two batteries on a controlled sequence. For correct operation of the device, both batteries are required with adequate capacity reserves.

When battery A reaches a low power threshold, it will trig-



ger a fault. This fault requires both batteries to be replaced in every instance as both batteries should be discharging equally.

When one (or both) batteries lack power, the Loop-Interface receives a low battery message and will signal this event on its in-built display, as well as relay the low battery message to the fire control panel. The battery fault will also be signalled by the device itself through its LED indicators if programmed (see table 1).

Tamper detection

REACH Wireless devices contain an anti-tamper mechanism. In the event of removal from its base, it sends a tamper detection message to the Loop-Interface.

Tampering detection is not signalled visually by the device LED.

EMC Directive 2014/30/EU

REACH Wireless Sounder Base complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available from Apollo on request.

Conformity of the REACH Wireless Sounder Base with the EMC Directive does not confer compliance with the directive on any apparatus or systems connected to it.

Construction Products Regulation (EU) 305/2011

The REACH Wireless Sounder Base complies with the essential requirements of the Construction Products Regulation (EU) 305/2011

A copy of the Declaration of Performance is available from Apollo on request.



Tabl	le 6: To	ne Tab	le														
16	15	14	13	12	11	10	9	8	7*	6*	5*	4*	ယ ့	2*	-	Pair Number Apollo Approved Tone	Anollo Tone
10000	01110	01101	01100	01011	01010	01001	01000	00111	00110	00101	00100	00011	00010	00001	0000	Value	
				7				MM $ MM $								Temporal Pattern Icon	Primary
Silent Tone (REACH Wireless ONLY)	Australia Evacuation (AS7240-3)	France - AFNOR NF S 32 001	Emergency Warning Siren	Simulated Bell - Continuous	US Temporal HF (ISO 8201) High Tone	US Temporal LF (ISO 8201 Low Tone	New Zealand Slow-rise Sweep Evacuation Tone (NZS 4512)	Australia Fast-rise Sweep (AS 1670:4-2004 Evacuation tone)	Swedish Fire Signal	German DIN 33 404	Netherlands -NEN 2575:2000 (Dutch Slow Whoop)	Sweep (fast) @ 9 Hz	Sweep (med) @ 1Hz	Alternating Warble (Hochiki & Fulleon)	Apollo Fire Systems Evacuate Tone	Temporal Pattern Description	Primary Tone (Evacuation)
0Hz Continuous	520Hz, 0.5s ON, 0.5s OFF x 3, 1s OFF	554Hz, 0.1s, 440Hz, 0.4s	600Hz – 1200Hz 4s followed by 1200 – 600Hz 4s	827Hz for 16ms followed by 990Hz for 16ms.	3x(2850Hz 0.5s ON, 0.5s OFF), 1s OFF	3x(970Hz 0.5s ON, 0.5s OFF), 1s OFF	500Hz – 1200Hz, 3.75s Sweep, 0.25s OFF	3x (500Hz - 1200Hz for 0.5s, 0.5s off), 1s OFF	660Hz 0.15s ON, 0.15s OFF	1200Hz – 500Hz Sweep 1s (1Hz)	500 – 1200Hz for 3.5s, 0.5s OFF	2500Hz-2850Hz @ 9Hz	800Hz - 970Hz @ 1Hz	925Hz for 0.25s, 626Hz for 0.25s	660Hz for 0.5s, 925Hz for 0.5s	Frequencies	
																Temporal Pattern Icon	Secondary
Silent Tone (Reach Wireless ONLY)	Australia Alert (AS7240-3)	Continuous	Emergency Warning Siren All Clear	Simulated Bell - Intermittent	Continuous	Continuous	New Zealand Alert Tone (NZS 4512)	Australia AS 1670:4- 2004 Alert tone	Swedish All Clear	Continuous	Continuous	Continuous	Continuous	Continuous (Hochiki & Fulleon)	Apollo Fire Systems Alert Tone	Temporal Pattern Descriptions	Secondary Tone (Alert)
0Hz Continuous	520Hz +/-5%, 0.5s ON, 3.5s OFF	970Hz Continuous	1200Hz Continuous	827Hz for 16ms followed by 990Hz for 16ms for 1s then 1s off.	2850Hz continuous	970Hz Continuous	420Hz 0.625s ON, 0.625s OFF	420Hz 0.625s ON, 0.625s OFF	660Hz Continuous	825Hz continuous	825Hz continuous	2850Hz continuous	970Hz Continuous (BS5839-1:2002)	925Hz	1s off, 925Hz for 1s	Frequencies	