REACH Wireless®

Sounder Base

Product overview

Product	**REACH Wireless Sounder Base**
Part No.	**RW1300-110APO**
Product	**REACH Wireless Sounder Base - Black Body**
Part No.	**RW1300-160APO**
Digital Communication	**Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO.** *See product for more detail.*

Manufacturer's Specification

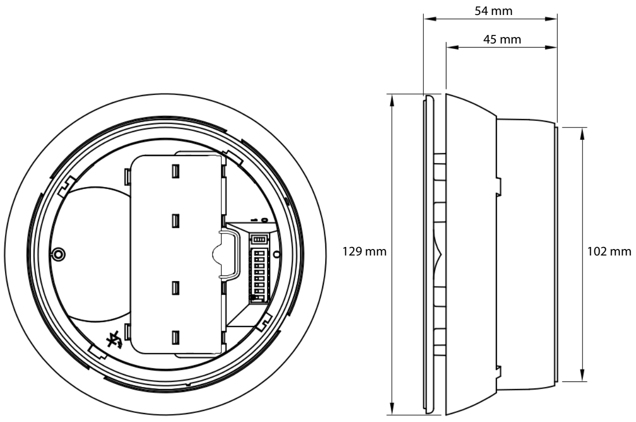
All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

Number of Tone Pairs	*16 (see table 4)*
Volume Levels	*Four (see table 3)*
Sound Output (Typical)	*88 - 91 dBA (tone dependant)*
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)*
Battery Type	*2x VARTA CR123A Lithium 3 V, 1250mAh typical*
Battery Lifespan	*Five years in normal operation with good signal strength (no dropped messages)*
Operating Temperature	*-10°C to +55°C*
Maximum Relative Humidity (non-condensing)	*95%*
IP Rating	*IP 21C (Type A Indoor Use)*
Dimensions	*129 mm diameter x 54 mm height*
Weight (including batteries)	*190 g*

Product information

The RW1300-110APO and RW1300-160APO are wireless analogue addressable sounder bases 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



Assessed to ISO 9001:2015
Cert/LPCB ref. 010

Assessed to ISO 14001:2015
Cert/LPCB ref. 010 EMS

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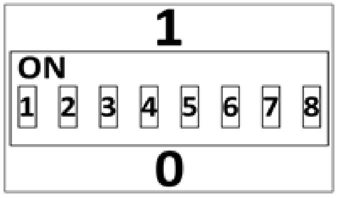
Status LED

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

Device Status	LED Indication	
	Tamper Not Activated	Tamper Activated
Power Up	Blinks green 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' following 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. Hard-addressing using Apollo XPERT cards are not supported.

Table 2: REACH Wireless DIP Switch Functionality

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

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
RW1000-400APO	REACH Wireless Heat Detector
RW1000-600APO	REACH Wireless Optical Smoke Detector
RW1000-700APO	REACH Wireless Multisensor Optical/Heat Detector
RW1000-660APO	REACH Wireless Optical Smoke Detector - Black Body
RW1000-460APO	REACH Wireless Heat Detector - Black Body
RW1000-760APO	REACH Wireless Multi-Sensor Detector (Optical/Heat) - Black Body

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
RW1300-060	REACH Wireless AV Base Cap - Black

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 trigger 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.