

Optical Smoke Detector



Product overview	
Product	REACH Wireless Optical Smoke Detector
Part No.	RW1000-600AP0
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.

Detection principle Photo-electric detection of light

scattered in a forward direction by

100 m (in open space)

smoke particles

Communication Range between Loop-Interface and

22 pairs

Field Device Radio Frequency Channel Pairs

Radiated Power

Status I FD

Green and Red 14 dBm (25 mW)

2x VARTA CR123A Lithium 3 V, Battery Type

1250mAh typical

Battery Lifespan 10 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

EN54-7, EN54-25 Standards and approvals

110 mm diameter x 70 mm height **Dimensions**

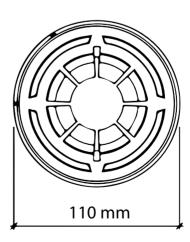
Weight (including base and 190 g

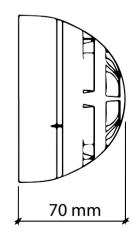
batteries)

Product information

The RW1000-600APO is a wireless addressable optical smoke detector that utilised dual-optical smoke detection technology for improved performance; maintaining the highest levels of false-alarm rejection.

- Twin alarm, bi-colour LEDs for 360° visibility
- Advanced dual-optical chamber design
- · Advanced drift compensation
- Bi-directional wireless communication
- Dual channel redundancy
- · Ten year battery life
- · Five year product warranty





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The REACH Wireless Optical Smoke Detector features an advanced dual-optical chamber design.

Status LED

It also includes a 360° LED indicator which illuminates red or green to indicate status conditions.

Table 1: REACH Wireless Device Status & LED Indication		
Device Status	LED Indication	
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	
Alarm	Red 1s, period 2s	
Battery Faults	LED off	
Tamper Fault	LED off	
Replaced	Blinks amber two times	

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.

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.

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.

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 LFD.

Base Compatibility

This device is supplied with a standard wireless base and is compatible with the following AV bases:

Table 2: REACH Wireless Base Compatibility		
Part Number	Product Name	
RW1300-110AP0	REACH Wireless Sounder Base	
RW1300-210AP0	REACH Wireless Sounder VAD Base (White Flash) (C-3-15)	
RW1300-211AP0	REACH Wireless Sounder VAD Base (Red Flash) (C-3-10)	

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).

EMC Directive 2014/30/EU

REACH Wireless Optical Smoke Detector 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 Optical Smoke Detector 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 Optical Smoke Detector complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



Heat Detector



Product overview		
Product	REACH Wireless Heat Detector	
Part No.	RW1000-400AP0	
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.

Detection principle Single NTC thermistor
Communication Range 100 m (in open space)

between Loop-Interface and

Devices

Field Device Radio Frequency

Channel Pairs

22 pairs

Status LED Green and Red
Radiated Power 14 dBm (25 mW)

Battery Type 2x VARTA CR123A Lithium 3 V,

1250mAh typical

Battery Lifespan 10 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 40

Standards and approvals EN54-5 Class P, EN54-25

Dimensions 110 mm diameter x 70 mm height

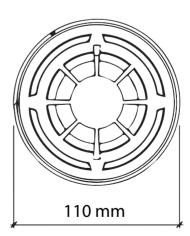
Weight (including base and 190 g

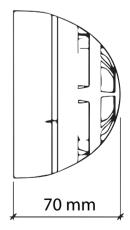
batteries)

Product information

The RW1000-400APO is a wireless analogue addressable heat detector that can be configured as either rate-of-rise (A1R) or high temperature (BS) classification as specified in the EN 54-5. Multiple EN 54-5 classes (either A1R and BS) can be configured via the Loop-Interface during setup.

- Twin alarm, bi-colour LEDs for 360° visibility
- Programmable for rate-of-rise (A1R) or static temperature (BS)
- · Bi-directional wireless communication
- Dual channel redundancy
- Ten year battery life
- · Five year product warranty





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The REACH Wireless Heat Detector is flexible – offering either static (BS) or rate-of-rise (A1R) functionality.

Status LED

It also includes a 360° LED indicator which illuminates red or green to indicate status conditions.

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 1: REACH Wireless Device Indication		
Device Status	LED Indication	
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	
Alarm	Red 1s, period 2s	
Battery Faults	LED off	
Tamper Fault	LED off	
Replaced	Blinks amber two times	

Communication

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

The Loop-Interface (RW1700-030APO / RW1700-031APO) 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.

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.

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

Base Compatibility

The device is supplied with a standard wireless base and is compatible with the following sounder bases:

Table 2: REACH Wireless Base Compatibility		
Part Number	Product Name	
RW1300-110AP0	REACH Wireless Sounder Base	
RW1300-210AP0	REACH Wireless Sounder VAD Base (White Flash) (C-3-15)	
RW1300-211AP0	REACH Wireless Sounder VAD Base (Red Flash) (C-3-10)	

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).

EMC Directive 2014/30/EU

REACH Wireless Heat Detector 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 Heat Detector 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 Heat Detector complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



Multisensor Detector



Product overview		
Product	REACH Wireless Multisensor Detector	
Part No.	RW1000-700AP0	
Digital Communication	Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO. See product for more detail.	

Approvals





Product information

The RW1000-700APO is a wireless addressable dual-optical and heat detection multisensor detector, offering both technologies for improved performance and high levels of false-alarm rejection.

- · Twin alarm, bi-colour LEDs for 360° visibility
- Advanced dual-optical chamber design
- Advanced drift compensation
- Heat detection rate-of-rise (A1R) and static temperature (BS)
- Bi-directional wireless communication
- Dual channel redundancy
- · Ten year battery life
- · Five year product warranty

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.

Detection principle Photo-electric detection of light

scattered in a forward direction by

smoke particles Single NTC Thermistor

Communication Range between Loop-Interface and 100 m (in open space)

Field Device Radio Frequency 22 pairs

Channel Pairs

Status LED Green and Red Radiated Power 14 dBm (25 mW)

2x VARTA CR123A Lithium 3V, Battery Type

1250mAh typical

Battery Lifespan 10 years in normal operation with

good signal strength (no dropped

messages)

Operating Temperature -10°C to +55°C

Maximum Relative Humidity

(non-condensing)

40

IP Rating Standards and approvals

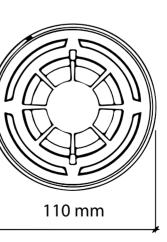
EN54-7, EN54-5 Class P, EN54-25

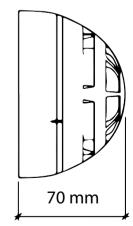
Dimensions 110 mm diameter x 70 mm height

95%

Weight (including base and 190 a

batteries)





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The REACH Multisensor Detector features a dual-chamber optical smoke sensor and rate-of-rise (A1R) heat detector. Alarm is triggered based on an algorithm that considers both sensor readings.

Status LED

It also includes a 360° LED indicator which illuminates red or green to indicate status conditions.

Table 1: REACH Wireless Device Status & LED Indication		
Device Status	LED Indication	
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	
Alarm	Red 1s, period 2s	
Battery Faults	LED off	
Tamper Fault	LED off	
Replaced	Blinks amber two times	

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.

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.

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.

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.

Base Compatibility

This device is supplied with a standard wireless base and is compatible with the following sounder bases:

Table 2: REACH Wireless Base Compatibility		
Part Number	Product Name	
RW1300-110AP0	REACH Wireless Sounder Base	
RW1300-210AP0	REACH Wireless Sounder VAD Base (White Flash) (C-3-15)	
RW1300-211AP0	REACH Wireless Sounder VAD Base (Red Flash) (C-3-10)	

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).

EMC Directive 2014/30/EU

REACH Wireless Multisensor Detector 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 Multisensor Detector 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 Multisensor Detector complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



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)

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

Communication Range between Loop-Interface and

100 m (in open space)

Devices

Field Device Radio Frequency 22 pairs

Channel 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)
Standards and approvals EN54-7, EN54-5 Class P, EN54-25

Dimensions 1

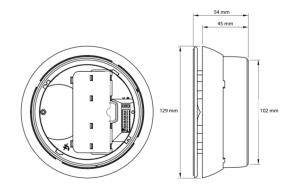
129 mm diameter x 54 mm height

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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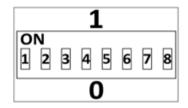




The REACH Wireless Sounder Base includes a 360° LED indicator which to indicate status conditions. See table 1.

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. 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 Win	reless 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



Tabl	le 6: To	ne Tab	le														
16	15	14	13	12	11	10	9	8	7*	6*	57	4*	3 *	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				1111 1111								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	800Нz - 970Нz @ 1Нz	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 AS1670:4- 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	



Sounder VAD Base



Product overview	
Product	REACH Wireless Sounder VAD Base
Part No.	RW1300-210APO (White Flash) RW1300-211APO (Red Flash)
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 7) Volume Levels Four volume settings

88 - 91 dBA (tone dependant) Sound Output (Typical) VAD Coverage Rating (EN54-Configurable (see table 4)

Flash Rate 0.5 Hz

Communication Range 100 m (in open space) between Loop-Interface and

Devices

25)

Field Device Radio Frequency

Channel 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)

Operating Temperature -10°C to +55°C

Maximum Relative Humidity

(non-condensing)

95%

IP Rating IP 21C (Type A Indoor Use)

Standards and approvals EN54-3, EN54-23, EN54-25

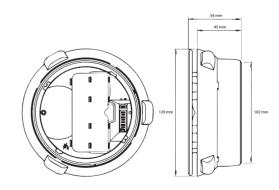
Dimensions 129 mm diameter x 54 mm height

Weight (including batteries)

Product information

The RW1300-210APO and RW1300-211APO are wireless analogue addressable sounder VAD 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



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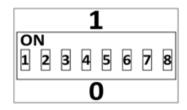




The REACH Wireless Sounder VAD Base includes a 360° LED indicator which to indicate status conditions. See table 1.

Table 1: REACH Wireless Device Status & LED Indication						
	LED Inc	dication				
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 signal 'Entering wake-up mode' followir 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 7) 4 5 6 Check Volume Volume Selection 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 7), see appendix

Table 4: REACH Wireless VAD Output Table							
Power	DIP Configuration	EN54-23 Class					
Lliah	1	White: C3-15					
High	'	Red: C3-10					
Low	0	White: C3-10					
Low	U	Red: 01.7-6.0					

Base Compatibility

This device is compatible with the following detector products (see table 5). It can also be used standalone with a blanking cap (see table 6).

Table 5: 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 6: 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						

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.



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 VAD 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.

Construction Products Regulation (EU) 305/2011

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



Tabl	le 7: To	ne Tab	le														
16	15	14	13	12	11	10	9	8	7*	6*	ភ	4*	ယ *	2*	*	Pair Number Apollo Approved Tone	Apollo Tone
10000	01110	01101	01100	01011	01010	01001	01000	00111	00110	10100	00100	00011	00010	00001	0000	Value	
				2				$ \Lambda\Lambda\Lambda $ $ \Lambda\Lambda\Lambda $				7				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 (AS1670:4-2004 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 0FF	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 AS1670:4- 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	



Loop-Interface



Product overview	
Product	REACH Wireless Loop-Interface
Part No.	RW1700-030AP0
Digital Communication	XP95 native (mimics XPander)
	Device will present as a zone monitor to the fire panel

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.

Communication Range between Loop-Interface and 100 m (in open space)

Devices

Maximum Number of

Connected Devices

0.5 Hz

Field Device Radio Frequency

22 pairs

Channel Pairs

Flash Rate

126 (XP95)

Available Protocol Addresses

Loop Interface requires a loop

address. Configured during setup.

14 dBm (25 mW) Radiated Power

17 V - 35 V (typical 24 V) Line Voltage 40 mA peak @24 V **Current Consumption** Operating Temperature -20°C to +70°C

Maximum Relative Humidity

(non-condensina)

IP 65

IP Rating Standards and approvals

EN54-17, EN54-18, EN54-25

Dimensions 236 mm diameter x 100 mm height

x 70 mm depth

Weight (including base and

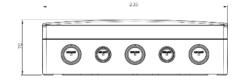
batteries)

700 g

Product information

The RW1700-030APO is a wired loop interface that bridges REACH Wireless radio-frequency products to an Apollo wired loop. Communication between the wireless products are translated to Apollo wired protocol for operation via the wired fire panel.

- · Built-in LCD Display
- · Physical Navigation Buttons
- 3x Status LEDs: Fault, Configuration, and Power
- · Loop-powered
- · Built-in Isolator
- Bi-directional wireless communication
- Dual channel redundancy
- · Five year product warranty





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When one or more faults are present in the system they are shown on the LCD and the fault LED is switched on yellow. LCD is ON only when the tamper switch is not activated (cover open) regardless of the configuration of the translator tamper fault.

For a table of fault codes & LED meanings, see table 1.

No. of Loop-interfaces

No. of Loop-interfaces per loop is determined by the following limits:

- Available RF channel Pairs. There are 22 available for 868Mhz region usage. 1 RF channel pair is required per loop-interface (for communicating to devices). 100m spacing between loop-interfaces is required before repeating RF channel usage (we recommend contacting Apollo customer support before attempting this).
- Available loop current. 40mA is required per loop-interface (@24V). Apollo recommends only loading a wired loop to 80% of theoretical max e.g. 80% of 500mA = 400mA/40mA = 10 loop-interfaces maximum per loop (assumes no other wired devices or voltage droop).
- Available Protocol Addresses. XP95 protocol supports upto 126 addresses. Although the Loop-interface does not use an address, the REACH wireless devices do so this may limit how many loop-interfaces can be installed with the maximum number of wireless devices connected (32 devices per loopinterface). Every REACH part number takes one address, including AV bases.

Examples:

- 3 Loop-interfaces with 32 wireless devices each (XP95 protocol address limit reached)
- 10 Loop-interfaces with 12 wireless devices each (available loop-current limit REACHed)

Device Addressing

RW1700-030APO allow REACH Wireless devices to be soft-addressed via the LCD display, during commissioning.

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

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.

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 LFD

EMC Directive 2014/30/EU

REACH Wireless Loop-Interface 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 Loop-Interface 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 Loop-Interface complies with the essential requirements of the Construction Products Regulation (EU) 305/2011

Table 1: REACH Wireless Fault Table						
Type of Fault	Fault Description	Note				
LINK	No valid supervision is received from the device by the link fault timeout	Fault LED blinking. Link fault timeout is configured with teh keyboard/LCD interface				
TAMP	Device is in tamper fault	Fault LED blinking				
FAULT	Generic device fault (transceiver error, FW incoherence, etc)	Fault LED blinking				
JAMMING	Noise on field communication channels	Fault LED blinking				
START UP	During low current consumption start-up phase	Fault LED blinking 1s ON / 2s OFF				
ISOLATORS	Isolators open	Fault LED steady on				
BRIGDE FAULT	Communications error between internal micros	Fault LED steady on				



Input Module



Prod	uct c	overview

Product REACH Wireless Input Module Part No. RW1700-051AP0 **Digital Communication** Apollo protocol compatibility is

> RW1700-030APO. See product for more detail.

Approvals





handled via the Loop-Interface device,

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.

Communication Range between Loop-Interface and 100 m (in open space)

Devices

Field Device Radio Frequency

22 pairs

Channel Pairs Radiated Power

14 dRm (25 mW)

Battery Type

2x VARTA CR123A Lithium 3 V,

1250mAh typical

Battery Lifespan

10 years in normal operation with good signal strength (no dropped

messages)

Operating Temperature

-10°C to +55°C

Maximum Relative Humidity (non-condensing)

IP Rating

IP 65

95%

Standards and approvals

EN54-18. EN54-25

Dimensions

136 mm diameter x 96 mm height x

57mm depth

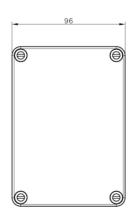
Weight (including batteries)

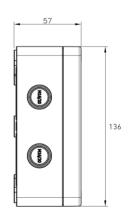
270 g

Product information

The RW1700-051APO REACH Wireless Input Module is a wireless analogue addressable interface with single fully monitored input circuit which allows simple integration of third-party equipment with the fire system.

- Input circuits are fully supervised for alarm and fault conditions (utilising eol resistors)
- Bi-directional wireless communication
- · Dual channel redundancy
- · Five year product warranty





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The RW1700-051APO REACH Wireless Input module works on an ON/OFF logic and does not rely on any special and/or intelligent communication protocol for its operation (i.e conventional call-points). See table 2 for connection requirements.

Status LED

When one or more faults are present in the system they are shown on the LCD and the fault LED is switched on yellow. LCD is ON only when the tamper switch is not activated (cover open) regardless of the configuration of the translator tamper fault.

Table 1: REACH Wireless Device Status & LED Indication

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 for times		
Link Success	Blinks green four times, then repeats		
Link Failure	'Entering wake-u	mode and signals p mode' following ailure	
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		

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.

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.

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 Input Module 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.

Construction Products Regulation (EU) 305/2011

The REACH Wireless Input Module 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.

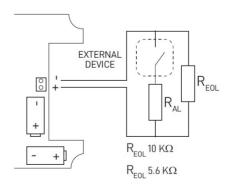
Table 2: REACH	Wireless (Connection	n Regu	irements
Tuble 2. REACT	Will ClC33 (ricqu	il Cilicile

Port	End of	f Line Im	oedance	Module Notes	Natas	
В	Min	Тур	Max	Units	Status	Notes
	6.5	10	14	kΩ	Normal	-
	0	-	2.4	kΩ	Fault	Short Circuit
Input	2.5	5	6.4	kΩ	Alarm	Triggered by Wired Device
	14.2	-	+∞	kΩ	Fault	Open Circuit
R _{EOL}	8	10	12	kΩ	-	
R _{AL}	5	5,6	6	kΩ	-	

The $10 K\Omega$ R resistor monitors whether the cable has been damaged or the connection is no longer available.

- The $5.6 \text{K}\Omega$ R resistor comes in and out of circuit depending on the state of the 3rd party device (alarm resistor).
- If you fail to install these resistors correctly the device will not operate as intended.
- Ensure the 3rd party device offers a voltage free relay switch.

Note: install a properly fire rated cable (according to national code of practice) between the third-party device and the input module.





Output Module



Proa	uct ov	erview/	

Product REACH Wireless Output Module Part No. RW1700-052APO

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

See product for more detail.

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.

Communication Range 100 m (in open space)

between Loop-Interface and

Field Device Radio Frequency

22 pairs

Channel Pairs Radiated Power

14 dRm (25 mW)

Battery Type

2x VARTA CR123A Lithium 3V,

1250mAh typical

Battery Lifespan

4 years in normal operation with good signal strength (no dropped

messages)

Operating Temperature

-10°C to +55°C

95%

IP 65

Maximum Relative Humidity (non-condensing)

IP Rating

Standards and approvals EN54-18. EN54-25

Dimensions

136 mm diameter x 96 mm height x

57mm depth

Weight (including batteries) 270 g

Approvals

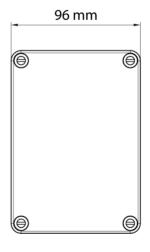


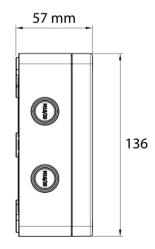


Product information

The RW1700-052APO REACH Wireless Output Module is a wireless analogue addressable interface which allows simple integration of third-party equipment with the fire system. The unit is powered entirely from its internal battery supply and is fitted as standard with both a set of change over relay contacts and a 12/24V dc output. The output is capable of supplying power for operating low current third party equipment directly from the internal batteries.

- Output circuits are fully supervised for fault conditions (utilising eol resistors)
- Bi-directional wireless communication
- Dual channel redundancy
- · Five year product warranty





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The RW1700-052APO REACH Wireless Output module works on an ON/OFF logic and does not rely on any special and/or intelligent communication protocol for its operation (i.e conventional call-points). See table 2 for connection requirements.

Status LED

When one or more faults are present in the system they are shown on the LCD and the fault LED is switched on yellow. LCD is ON only when the tamper switch is not activated (cover open) regardless of the configuration of the translator tamper fault.

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 signa 'Entering wake-up mode' followir this failure		
Normal Condition	LED off	LED off	
Activation	LED off	Red on 1s	
Battery Faults	LED off	Amber blinking every 5s	
Tamper Fault	LEC) off	
Replaced	Blinks amber two times		

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.

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.

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 Output Module 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.

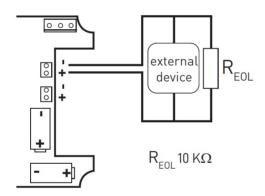
Construction Products Regulation (EU) 305/2011

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



Table 2: REACH Wireless	S Connect	ion Rec	quireme	ents			
Port A		Voltage	Setting		Max Load	Max Load Current	
Output		1:	2V		100 mA		
Output		2	4V		50	mA	
	End of	f Line Im	pedance	Limits	Module Status	Makaa	
	Min	Тур	Max	Units	Module Status	Notes	
Output Supervision	6.5	10	14	kΩ	Normal	-	
	0	-	2.4	kΩ	Fault	Short Circuit	
	14.2	-	+∞	kΩ	Fault	Open Circuit	
$R_{\scriptscriptstyleEOL}$	8	10	12	kΩ	-	-	
Port B	End of	End of Line Impedance Limits		Limits	Module Status	Mataa	
POLT B	Min	Тур	Max	Units	Module Status	Notes	
	6.5	10	14	kΩ	Normal	-	
Relay Supervision	0	-	2.4	kΩ	Fault	Short Circuit	
	14.2	-	+∞	kΩ	Fault	Open Circuit	
R _{EOL}	8	10	12	kΩ	-	-	
Port A		Voltage Setting			Max Load Current		
Output		30 V			2 A		

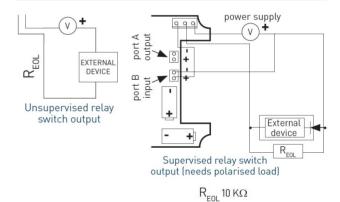
Wiring Example 1: 100 mA / 12 Vdc or 50 mA / 24 Vdc External Device Driving Capability



The $10 K\Omega$ R EOL resistor monitors whether the cable has been damaged or the connection is no longer available.

If you fail to install these resistors correctly the device will not operate as intended.

Wiring Example 2: Relay Switch Output



Ensure the device connected to the unit is not drawing more than 2 A at 30V (no 220 VAC). Drawing too much current through the output relay or connecting mains voltage could possibly damage the unit and void warranty.

Note: install a properly fire rated cable (according to national code of practice) between the third-party device and the output module.



Remote Indicator



Product overview	
Product	REACH Wireless Remote Indicator
Part No.	RW1500-800AP0
Digital Communication	Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO. See product for more detail.

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.

Communication Range between Loop-Interface and

100 m (in open space)

Devices

Field Device Radio Frequency 22 pairs

Channel Pairs

Radiated Power

14 dBm (25 mW)

Battery Type

2x VARTA CR123A Lithium 3V,

1250mAh typical

Battery Lifespan

Five years in normal operation with good signal strength (no dropped

good signal strength (no messages)

Operating Temperature

-10°C to +55°C

Maximum Relative Humidity

95%

(non-condensing)

IP 42

Standards and approvals

EN54-25

Dimensions

IP Rating

80 mm diameter x 80 mm height x

32 mm depth

Weight (including batteries) 60 g

Approvals

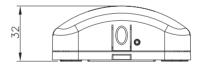


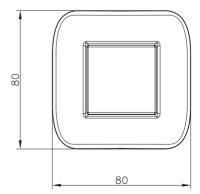


Product information

The RW1500-800APO is a wireless addressable remote indicator that can be used to indicate the activation of an individual device or zone.

- · Compatible only with REACH Wireless
- · Red LED with large diffuser for greater visibility
- · Bi-directional wireless communication
- · Dual channel redundancy
- · Five year product warranty





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The REACH Wireless Remote Indicator is equipped with a visual LED Indicator; LED signals indicate functional status of the device as per Table 1.

Table 1: REACH Wireless Device Status & LED Indication		
Device Status	LED Indication	
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	
Activation	LED on	
Battery Faults	LED off	
Tamper Fault	LED off	
Replaced	Blinks green two times	

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.

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.

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.

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 Remote Indicator 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.

Construction Products Regulation (EU) 305/2011

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



Manual Call Point



Product overview	
Product	REACH Wireless Manual Call Point
Part No.	RW1900-901AP0
Digital Communication	Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO. See product for more detail.

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.

Communication Range between Loop-Interface and

100 m (in open space)

Devices

Field Device Radio Frequency

22 pairs

Channel Pairs
Radiated Power

14 dRm (25 mW)

Battery Type

2x VARTA CR123A Lithium 3 V,

1250mAh typical

Battery Lifespan

10 years in normal operation with good signal strength (no dropped

messages)

Operating Temperature

-10°C to +55°C

Maximum Relative Humidity

95%

(non-condensing)

IP 30

IP Rating
Standards and approvals

EN54-11. EN54-25

Dimensions

88 mm diameter x 87 mm height x

61 mm depth

Weight (including batteries) 160 g

Approvals

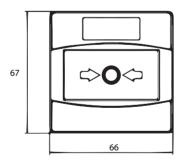


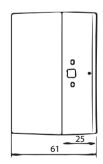


Product information

The RW1900-901APO is a wireless analogue addressable manual call point. The unit has a resettable plastic element, which displays a drop-down warning indicator when operated. A key is supplied with the MCP for reset and case opening. A transparent cover protects against accidental operation is available as an accessory (not included).

- Resettable Element
- · Bi-directional wireless communication
- Dual channel redundancy
- Ten year battery life
- · Five year product warranty





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The RW1900-901APO REACH Wireless Manual Call Point is a wall-mounted device that, when activated, initiates an alarm on the fire security system. After its use the call point unit can be simply reset with its proper key, making it immediately ready for reactivation.

Status LED

When one or more faults are present in the system they are shown on the LCD and the fault LED is switched on yellow. LCD is ON only when the tamper switch is not activated (cover open) regardless of the configuration of the translator tamper fault. See table 1 for LED status meanings.

Table 1: REACH Wireless Device Status & LED Indication		
Device Status	LED Indication	
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	
Activation	Red on 1s, period 2s	
Battery Faults	LED off	
Tamper Fault	LED off	
Replaced	Blinks amber two times	

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.

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.

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 Manual Call Point 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.

Construction Products Regulation (EU) 305/2011

The REACH Wireless Manual Call Point complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



Open-Area Wall Sounder







Product overview	
Product	REACH Wireless Open-Area Wall Sounder
Part No.	RW1500-110APO (White Body) RW1500-120APO (Red Body)
Digital Communication	Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO.

Approvals





Product information

The RW1500-110APO and RW1500-120APO comprise of a wireless addressable interface and conventional open-area wall sounder that can be used as a stand-alone notification device.

- · Compatible only with REACH Wireless
- 16 tone pair 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

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 2)

Volume Levels Four (see table 3)

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

Communication Range between Loop-Interface and Devices

Range 100 m (in open space)

Field Device Radio Frequency

22 pairs

Channel 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-condensina)

7370

IP Rating IP 35 (Type B Indoor Use)

Standards and approvals EN54-3, EN54-25

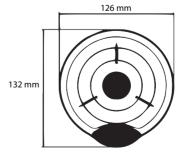
Dimensions 126 mm diameter x 132 mm height

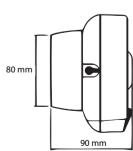
x 125 mm depth

Weight (including base and

batteries)

77 mm
65 mm
35 mm
30 mm





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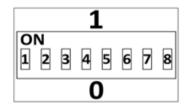




The REACH Wireless Open-Area Wall Sounder VAD Base includes a 360° LED indicator which to indicate status conditions. See table 1.

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

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 Number	DIP Switch Group Function	Notes				
1						
2						
3	Tone Selection	Check Tone Table (Table 4)				
4		(10010 1)				
5						
6	Volume Selection	Check Volume				
7	volume Selection	Table (Table 3)				
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 4), 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

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 Open-Area Wall Sounder 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.



Construction Products Regulation (EU) 305/2011

The REACH Wireless Open-Area Wall Sounder complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



Tabl	le 4: To	ne Tab	le														
16	15	14	13	12	11	10	9	8	7*	6*	ហ *	4*	3 *	2*	*	Pair Number Apollo Approved Tone	Apollo Tone
10000	01110	01101	01100	01011	01010	01001	01000	00111	00110	00101	00100	00011	00010	00001	0000	Value	
				7				1/1/1 $1/1/1$								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 (AS1670:4-2004 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 AS1670:4- 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	



Open-Area Wall Sounder VAD







Product overview	
Product	REACH Wireless Open-Area Wall Sounder VAD
Part No.	RW1500-210APO (White Body, White Flash) RW1500-220APO (Red Body, White Flash)
Digital Communication	Apollo protocol compatibility is handled via the Loop-Interface device, RW1700-030APO. See product for more detail.

Approvals





Product information

The RW1500-210APO / RW1500-220APO is a wireless analogue addressable interface and a conventional openarea wall sounder VAD that can be used as a stand-alone notification device.

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

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 2)

Volume Levels Four volume settings

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

Communication Range between Loop-Interface and 100 m (in open space)

Devices VAD Coverage Rating (EN54-

Configurable - See Table 4

25)

Flash Rate 0.5 Hz

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-condensing)

Dimensions

95%

350 g

IP Rating

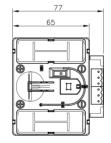
IP 35 (Type B Indoor Use)

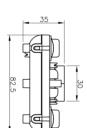
Standards and approvals

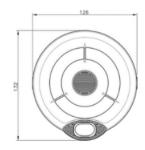
EN54-3, EN54-23, EN54-25

126 mm diameter x 132 mm height x 125 mm depth

Weight (including base and batteries)









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The REACH Wireless Open-Area Wall Sounder VAD 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 Tamper Activated Activated Power Un Blinks green four times Power Up (dip-switch ON) Blinks red four times Blinks alternatively green/red four Entering Wake-Up Blinks green four times, then Link Success repeats Enters wake-up mode and signals I ink Failure 'Entering wake-up mode' following this failure Normal Condition LED off LED off LED off Activation Red on Amber blinking **Battery Faults** LED off every 5s Tamper Fault I FD off Replaced Blinks amber two times

Tone & Volume Selection DIP Switch Settings

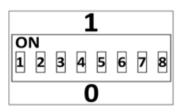


Table 2: REACH Wireless DIP Switch Functionality									
DIP Switch Number	DIP Switch Group Function	Notes							
1									
2									
3	Tone Selection	Check Tone Table (Table 4)							
4		(14515 1)							
5									
6	Volume Selection	Check Volume							
7	votume Selection	Table (Table 3)							
8	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 4), see appendix

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.

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.

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

EMC Directive 2014/30/EU

REACH Wireless Open-Area Wall Sounder VAD 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.

Construction Products Regulation (EU) 305/2011

The REACH Wireless Open-Area Wall Sounder VAD complies with the essential requirements of the Construction Products Regulation (EU) 305/2011



Tabl	le 4: To	ne Tab	le														
16	15	14	13	12	11	10	9	8	7*	6*	5*	4*	3	2*	1*	Pair Number Apollo Approved Tone	Apollo Tone
10000	01110	01101	01100	01011	01010	01001	01000	00111	00110	00101	00100	00011	00010	00001	0000	Value	
				2				$ \Lambda\Lambda\Lambda $ $ \Lambda\Lambda\Lambda $		7						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 (AS1670:4-2004 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 0FF	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 AS1670:4- 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	



Survey Kit Lite





Product overview	
Product	REACH Wireless Survey Kit Lite
Part No.	RW1800-060AP0
Digital Communication	N/A

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.

Field Device Radio Frequency 22 pairs

Channel Pairs
Radiated Power

14 dBm (25 mW)

Battery Type (Field-Device)

2x VARTA CR123A Lithium 3 V,

1250mAh typical

Battery Type (Network Host Device)

4x VARTA CR123A Lithium 3 V,

1250mAh typical -10°C to +55°C

Operating Temperature

Maximum Relative Humidity

95%

(non-condensing)

Standards and approvals

EN54-25

Dimensions

136 mm diameter x 96 mm height x

57mm depth

Weight (including base and

batteries)

270 g

Approvals





Product information

The RW1800-060APO is a portable, battery-powered toolkit for surveying signal strength of the REACH Wireless system, ahead of installation into a building.

The field-device can be held in position to test the signal strength of a potential installation location between it and the network host device. The field-device will indicate signal strength by flashing its on-board LED.

- Includes 1x network host device, 1x field-device, 1x extendable detector mounting pole
- Field-device includes an RGB LED for signal strength indication
- Bi-directional wireless communication
- · Dual channel redundancy

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.

EMC Directive 2014/30/EU

REACH Wireless Survey Kit Lite 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.

Construction Products Regulation (EU) 305/2011

The REACH Wireless Survey Kit Lite 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.

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Signal Quality LED Table								
Rssi	(dBm)	LED Activity +	Signal Quality	Ok to Install				
Min	Max	Colour	Signal Quality	OK to instatt				
0	-65	•••	Excellent					
-66	-75	•••	Good	Yes				
-76	-80	• • •	Sufficient					
-81	-85		Marginal					
-86	-90		Bad					
-91	-95		Very Bad	No				
-96	-100		Extremely Bad					
101	-105		Range Limit					