REACH Wireless®
Manual Call Point

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 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	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	IP 30
Standards and approvals	EN54-11, EN54-25
Dimensions	88 mm diameter x 87 mm height x 61 mm depth
Weight (including batteries)	160 g

Product overview

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

Approvals

CE

UKCA

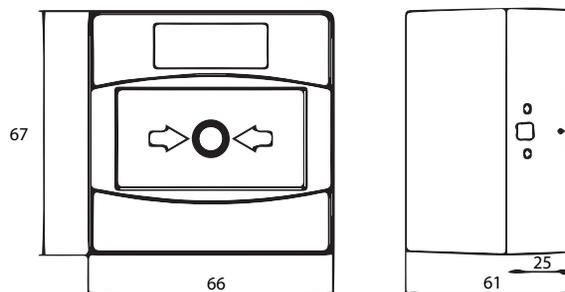## Product information

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

67

66

25

61

LPCB
UKAS MANAGEMENT SYSTEMS 0007
Assessed to ISO 9001:2015
Cert/LPCB ref. 010

LPCB
UKAS MANAGEMENT SYSTEMS 0007
Assessed to ISO 14001:2015
Cert/LPCB ref. 010 EMS

LPCB
UKAS PRODUCT CERTIFICATION 0007
Cert/LPCB ref. 010

A **Halma** company

apollo

Operating Principles

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. Hard-addressing 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

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