XP95®

Intrinsically Safe Manual Call Point

Product Overview

Product Type	Intrinsically Safe Manual Call Point
Part No.	55200-940
Digital Communication Protocol	XP95, Discovery® & CoreProtocol® compatible

Product Information

The XP95 Intrinsically Safe (I.S.) Manual Call Point has been designed to operate as part of a radial circuit in hazardous areas when connected to a protocol translator and galvanic barrier.

An alarm is initiated by pressing the resettable element. The Manual Call Point signals to the fire control panel using an interrupt feature within the Apollo Digital Communication Protocol. An activated alarm status is indicated by a yellow and black bar in the lower section of the resettable element and a red LED. The Manual Call Point can be easily reset from the front using the supplied reset key.

The XP95 I.S. Manual Call Point can be used for both indoor and outdoor applications.

To reduce installation time all of the installation cabling is wired to a removable terminal block, which fits neatly into the back of the Manual Call Point.

- ATEX Approved
- Resettable operating element
- Easy access, front reset mechanism
- Ergonomic reset key
- EN 54-11 Approved
- IP56 rated (with IP67 rated electronics enclosure)

Technical Data

Supply voltage	14-22V dc
Digital Communications Protocol	XP95, Discovery & CoreProtocol compatible 5-9V Peak to Peak
Current Consumption (max) at 22V dc	
Power Up Surge (1s typical)	1mA
Quiescent	230µA
Alarm current (LED On)	1.2mA
Operating temperature	-20°C to +60°C (T4) -20°C to +40°C (T5)
Humidity	0% to 95%RH (no condensation or icing)
Vibration, impact and shock	EN 54-11
IP Rating	IP56 rated (with IP67 rated electronics enclosure)
Approvals & standards	EN 54-11, CPR, BASEEFA, BOSEC, BRZ, IECEx, PESO, SBSC, VNIIPO, LR & ESC
Dimensions	114mm height x 114mm width x 74mm depth
Weight	330g

Certified to ATEX Directive 94/9/EC

Certificate number BAS02ATEX1290X

Equipment Markings

<Ex> II 1G Ex ia IIC T5 Ga (-20°C ≤ Ta ≤+45°C)
or Ex ia IIC T4 Ga (-20°C ≤ Ta ≤+60°C)

<Ex> II 1D Ex ia IIIC T135°C Da (-20°C ≤ Ta ≤ +60 °C)

Electrical consideration

The XP95 I.S. Manual Call Point is loop powered and operates at 14 - 22V dc.

Protocol & system capability

The XP95 I.S. Manual Call Point is designed for use only in an I.S. system together with a protocol translator and a safety barrier*. Details of system design can be found in Engineering Product Guide, PP1095. The protocol translator (Part No. 55000–855 single channel, Part No. 55000–856 dual channel), whilst remaining transparent to the fire control panel, ensures the call point operates correctly.

Table 1 Digital communications protocol compatibility

Protocol	Device behaviour
XP95/Discovery[†]	XP95
CoreProtocol[†]	XP95

[†] *Fire control panel dependant*

* Note: Apollo recommends the Galvanic Barrier Part No. 29600-098

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LPCB UKAS MANAGEMENT SYSTEMS 0007
Assessed to ISO 9001:2008
Cert/LPCB ref. 010

LPCB UKAS MANAGEMENT SYSTEMS 0007
Assessed to ISO 14001:2004
Cert/LPCB ref. 010 EMS

LPCB UKAS PRODUCT CERTIFICATION 0007
Cert/LPCB ref. 010

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Mechanical construction

The component parts of the Manual Call Point are moulded in a robust fire retardant polycarbonate. Figure 1 shows the mounting hole dimensions and the available cable entry glands and Figure 2 shows the overall dimensions.

IP rated installations

Apollo recommends installing the Waterproof Manual Call Point using cable entry from the bottom of the MCP. It is important that correctly IP rated cable glands are used to ensure the IP rating of the device is not compromised. All cable glands and unused cable entry blanking plugs must be fully tightened and sealed to ensure the IP integrity is maintained. Use of PTFE or similar thread sealer is recommended.

Operating Principles

The address of each Manual Call Point is set at the commissioning stage by means of a seven-segment DIL switch.

A red alarm LED is provided on the Manual Call Point. This LED is controlled independently of the Manual Call Point, by the fire control panel.

Once activated, the XP95 I.S. Manual Call Point can be reset by inserting the reset key into the front facing LED turning clockwise until a positive click and reset occurs.

Table 2 Analogue values	
16	Quiescent
64	Alarm

EMC Directive 2004/108/EC

The Manual Call Point complies with the essential requirements of the EMC Directive 2004/108/EC, provided that it is used as described in this data sheet.

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

Conformity of the Manual Call Point with the EMC Directive does not confer compliance with the directive on any apparatus or systems connected to it.
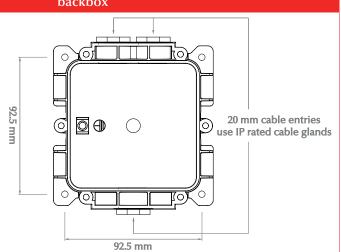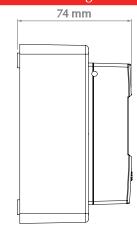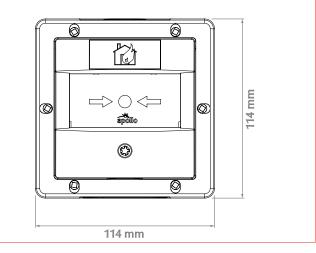
Figure 1 XP95® Intrinsically Safe Manual Call Point backbox

92.5 mm
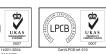
20 mm cable entries use IP rated cable glands

92.5 mm

Figure 2 XP95® Intrinsically Safe Manual Call Point dimensional drawing

74 mm

114 mm

114 mm

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