

XP95

Visual Alarm Device Base



Product Overview

Product	XP95 VAD Base
Part No.	45681-709
Digital communication	XP95, Discovery and CoreProtocol® compatible

Product Information

The XP95 Visual Alarm Device (VAD) Base incorporates a loop-powered VAD with a standard mounting base. It is used to signal a visual fire alarm warning in enclosed areas.

The XP95 VAD Base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device. The VAD Base is supplied with a built-in isolator.

The product offers:

- EN 54-23 compliant Category O VAD
- VAD flash rate of 0.5 Hz
- Synchronised with the Apollo protocols.
- Individual and group addressing
- Automatic LED check when VAD activated
- Built-in short circuit isolator

Manufacturer's Specification

All data is supplied subject to change without notice. Specifications are typical at 24V, 23°C and 50% RH unless otherwise stated.

Operating voltage	17 V - 28 V dc polarity sensitive
Current consumption at 24 V dc	
Quiescent current	350 µA
Power-up surge current	1.2 mA for one second
Device operated	9 mA
Maximum sound output at 90°	90 ± 3 dB(A)
VAD frequency	0.5 Hz
IP Rating	IP21C
Dimensions	115 mm diameter x 38 mm height
Weight	156 g
Materials	Housing: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel

Notes:

1. The XP95 VAD Base is a Type A device and suitable for indoor use only.
2. The isolating circuit of the XP95 VAD Base is certified to EN 54-17 2005.
3. For information on isolating circuits refer to PP2090 - Short-circuit Isolation available on request from Apollo.

For systems requiring isolators at every point the built-in isolator saves installation times and cost.

The VAD self-test is achieved by means of a LED monitoring circuit. If the LEDs do not draw current when the VAD Base has been switched on, a fault signal is transmitted when the device is next polled.

Electrical considerations

The XP95 VAD Base is loop-powered so needs no external power supply. It operates at 17 - 28 V dc and is polarity sensitive.

Addressing

The XP95 VAD Base responds to its own individual address set with a DIL switch. It also responds both to a group address, set by means of a four segment DIL switch and to a synchronisation address which is embedded in the unit.

Addresses 1 to 111 are used exclusively for individual addresses; addresses 112 to 126 are used for group addressing. Any VAD Bases on the loop may be freely assigned to a group. The address for any group *must* be chosen from

the range 112 to 126.

Addresses 112 to 126 may be used as individual addresses but only if the four segment DIL switch is not used, i.e. group addressing is disabled. If the four segment DIL switch were set to any number other than the default 127 a pre-set analogue value of 4 would be transmitted to indicate a fault.

Group addressing

It may be desirable, in alarm conditions, to switch more than one VAD Base simultaneously. To enable this, devices may be controlled as a group and given a group address which is common to all VAD Bases in the group. When a device recognises its group address, it will process the output bits but it will not return any data to the control panel on that address. If it is required to confirm the status of the outputs of devices under group address control it is necessary to interrogate all devices in the group at their individual addresses.

Self-test

Self-test is an important safety feature that has been incorporated into the XP95 VAD Base. When it is switched on it tests itself by checking the flash operation. If no current is drawn by the LEDs an analogue value of 2 (=VAD fault) is transmitted.

The self-test can also be used during commissioning or periodical maintenance testing. Simply activate the VAD for at least five seconds and check the control panel for a fault signal. If none is received, the VAD Base is working properly.

Protocol compatibility

The XP95 VAD Bases will only operate with control equipment using the Apollo protocols. The features of the VAD Base are only available when it is connected to a control panel with the appropriate software.

Synchronisation

It is possible to synchronise the sound and flash outputs of the XP95 VAD Bases connected to a loop. The method of synchronisation depends upon the design and configuration of the control panel.

For more details of protocol compatibility and synchronisation you should refer to the relevant panel manufacturer.

EMC Directive 2014/30/EU

The XP95 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 the Apollo website: www.apollo-fire.co.uk.

Construction Products Regulation (EU) 305/2011

The XP95 VAD Base complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk