



By Appointment to
Her Majesty The Queen
Manufacturers of Fire Detection & Alarm Products
Apollo Fire Detectors Limited
Hampshire



16 FEBRUARY 2021

Technical Bulletin (TB-2002): Apollo Loop Powered C-3-15 VADs, C-3-8.5 & W-2.4-6 Loop Powered VADs (Cat C - 8.5M / Cat W - 6M) (55000-740APO / 55000-743APO / 55000-741APO / 55000-742APO / 55000-744APO / 55000-745APO)

Reason for notification:

Following an internal review of Apollo Loop Powered VADs, we have identified a potential issue whereby, in the event of a short-circuit on the loop cables, a VAD in alarm condition may not reset correctly and prevent the rest of the loop from powering up. Consequently, the evacuation will no longer be signalled on the affected section of the fire loop. This scenario would affect the Apollo C-3-15 Loop Powered VAD **when installed without fire resistant cables.**

Please note: Fire resistant cable is interpreted to be a cable that complies to EN 50200:2015 PH30 or better. This is cable that maintains circuit integrity under fire conditions for a specified period; building evacuations are generally required to be completed within 20 minutes meaning that cable complying to EN 50200:2015 PH30 or better will not fail before the evacuation is complete and so is safe and considered as fire resistant cable. Other cables that have a similar performance tested under other standards will also be safe.

Existing Installations Using Non - Fire Resistant Cabling

C-3-15 VADs When Used WITHOUT Fire Resistant Cabling (55000-740APO / 55000-743APO)

Whilst all installed devices maintain their associated notified body approvals, Apollo has decided to offer a free-of-charge solution for use wherever a Loop Powered C-3-15 VAD has been installed (as per Apollo guidelines and in line with local installation requirements) **without** fire resistant cabling.

The solution is to wire a Double Isolator & Isolator Base in series with the Loop Powered C-3-15 VAD as per image 1 below:

Image 1



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To ensure any risk of the above scenario taking place is eliminated, affected customers should contact Apollo Technical Support (techsales@apollo-fire.com) to arrange the delivery of a Double Isolator (55000-720) and Isolator Bases (45681-211).

C-3-8.5 & W-2.4-6 VADs When Used WITHOUT Fire Resistant Cabling
(55000-742APO / 55000-745APO / 55000-741APO / 55000-744APO)

If there is more than ONE VAD per isolated section, then the VAD device must be fitted onto an isolating base (45681-284) in line with the Short-Circuit Isolation data sheet (PP2090), if there is only one VAD per isolated section then no further action is required.

Any loops with Soteria Non-Isolated Detectors or XP95 Detectors installed with 20I isolators either side, the VAD device must be fitted onto an isolating base (45681-284) in line with the Short-Circuit Isolation data sheet (PP2090) – see table in appendix.

Future Installations of Apollo Loop Powered C-3-15 VADs
(55000-740APO / 55000-743APO)

Safety and integrity are vital to Apollo and the Fire Industry and so to ensure best practice moving forward, Apollo will be providing a new method of installation free-of-charge with every purchase of a Loop Powered C-3-15 VAD (55000-740 / 55000-743).

When an order is placed for 55000-740APO or 55000-743APO we will also ship with these devices:

- 2 X Isolators (55000-720)
- 2 X Isolator Base (45681-211)

This will be shown as product code 55000-747APO or 55000-748APO on all documentation.

These additional products will be provided by Apollo at our cost and any future installations must be installed as per image 1 above.

Future Installations of Apollo C-3-8.5 & W-2.4-6 Loop Powered VADs
(55000-741APO / 55000-742APO / 55000-744APO / 55000-745APO)

In line with the Short-Circuit Isolation data sheet (PP2090), please ensure that any new installations are fitted on an isolating base (45681-284).

All associated Datasheets and Installation Guides are updated to reflect the above requirement.

We apologise for any inconvenience caused and would request any affected customers to contact Apollo Technical Support for further information and advice.

Questions:

Should you have any further questions, please don't hesitate to contact:

techsales@apollo-fire.com or returns@apollo-fire.com

- END -



Appendix: Table 1

		Not Using Fire Resistant Cabling								
Detectors on loop		Soteria non-isolated			Discovery			XP95		
Isolator Either Side		20C	20I	20D	20C	20I	20D	20C	20I	20D
SKU	Type									
55000-740	C-3-15	No action required	Order kit 55000-747APO which includes isolators & bases	No action required	No action required	Order kit 55000-747APO which includes isolators & bases	No action required	No action required	Order kit 55000-747APO which includes isolators & bases	No action required
55000-743	C-3-15	No action required	Order kit 55000-748APO which includes isolators & bases	No action required	No action required	Order kit 55000-748APO which includes isolators & bases	No action required	No action required	Order kit 55000-748APO which includes isolators & bases	No action required
55000-741	W-2.4-6	No action required	Only ONE VAD and a maximum of 10 detectors per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD and a maximum of 10 detectors per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required
55000-744	W-2.4-6	No action required	Only ONE VAD and a maximum of 10 detectors per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD and a maximum of 10 detectors per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required
55000-742	C-3-8.5	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base	No action required
55000-745	C-3-8.5	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base (45681-284) and observe PP2090	No action required	No action required	Only ONE VAD per isolated section otherwise must be installed on an isolating base	No action required

