



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



01 DECEMBER 2020

## Technical Bulletin (TB-2003-04): Apollo Flame Detectors Update

### Reason for notification:

Following our previous communications, we would like to remind customers of issues seen with the Apollo Flame Detectors and the need to undertake regular maintenance and testing of these devices.

The issues seen were that in a limited number of cases the IR sensor may not be calibrated correctly, resulting in misinterpretation of signal received and potentially the Flame Detector not responding to a flame. We also understand that this issue may not be detected by the Flame Detector Test Set (29600-226) or the internal device self-test. This impacts our multiple-IR detectors; IR3 & UV/IR2, but not the UV-only flame detectors.

### Reminder on what to do:

We would like to remind customers and end users that they should conduct regular maintenance and testing of the Apollo Flame detection products, according to the risk and environment in which the product(s) are located. The frequency of such maintenance and test schedule should be revisited at regular intervals to ensure that it remains appropriate. All potentially affected models should be tested with a live flame or a modified Test Torch where it is safe to do so. When it is not safe to test a device with a live flame in the relevant location, we recommend that where appropriate you remove the device and undertake a live flame test in a safe location. Testing with a live flame should only be conducted in a safe environment.

1. If your most recent functional test on any of listed products was completed successfully using a live flame, no further testing is needed, however we would ask you to confirm the number of devices tested and passed.
2. If you test using the Flame Detector Test Set or the internal device self-test, we would ask you to schedule a functional test as soon as possible. It is important to bear in mind that this needs to be done with a live flame, but only where it is safe to do so. If it is not possible to test safely with a live flame in the installed environment, please remove the detector and undertake the test in a safe environment if that is appropriate.
3. If you / your customer does not presently test with a live flame and it is safe to do so, we recommend conducting the test using one of the following options:
  - a. Standard pan-fire test, using a 0.1m<sup>2</sup> n-heptane fire at 25m from the detector, as per EN54 Part 10
  - b. A camping stove with a flame that's approximately 15cm high by 1.5cm wide at ~2.4m from the detector

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- c. A Zippo-style cigarette lighter with a flame that's approximately 4cm high by 1cm wide at ~70cm from the detector, waved to provoke flicker

Note: if a flame triggers an alarm; despite being smaller and closer, then the detector does not have sensor issues and is safe to use

Please can you confirm that the Flame Detector issue has been communicated to your potentially affected customers. If you are yet to inform your customer(s), we encourage you to do so at your earliest convenience.

Please forward this communication to your potentially affected customers as soon as possible and contact your Apollo account manager if you or your customers require any support.

### Questions:

Should you have any further questions, please don't hesitate to call your account manager directly.

### Potentially Affected Product List:

Item number	Item Name
55000-019APO	Conventional Flame Detector (IR3) [SIL2]
55000-020APO	XP95 Flame Detector (IR3)
55000-021APO	XP95 Exd Flame Detector (IR3) - Flameproof
55000-023APO	XP95 Flame Detector (UV/IR2) - Base Mounted
55000-024APO	XP95 Flame Detector (IR3) - Base Mounted
55000-028MAR	XP95 Marine Flame Detector (UV/IR2) - Base Mounted
55000-029MAR	XP95 Marine Flame Detector (IR3) - Base Mounted
55000-034MAR	XP95 Marine Flame Detector (IR3) - Stainless Steel
55000-060APO	Conventional Flame Detector (IR2) [SIL2]
55000-061APO	Conventional Exd Flame Detector (IR2) - Flameproof [SIL2]
55000-062APO	Conventional Exd Flame Detector (IR3) - Flameproof [SIL2]
55000-063APO	Conventional I.S. Flame Detector (IR3) [SIL2]
55000-064APO	Conventional Flame Detector (UV/IR2) [SIL2]
55000-065APO	Conventional Exd Flame Detector (UV/IR2) - Flameproof [SIL2]
55000-280APO	XP95 Flame Detector (IR2)
55000-280RUS	XP95 Flame Detector (IR2)
55000-295APO	XP95 Exd Flame Detector (IR2) – Flameproof
29600-226	Flame Detector Test Set

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