

Description

ONEDETECTOR_AP continuously samples the air condition and temperature of the protected area to provide the earliest warning of fire and yet offers a high level of false alarm rejection.

Each detector is provided with an integrated isolator circuit, that automatically takes action in case of need.

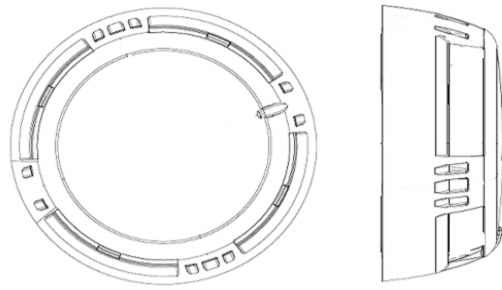
The ONEPROTOCOLL employed by the monitoring control panel provides high rates of information.

ONEDETECTOR_AP benefits from a "dust trap" that limiting potential contamination and extending periods between maintenance without compromising sensitivity of response.

ONEDETECTOR_AP must only be connected to control panels that use the ONEPROTOCOLL proprietary analogue intelligent addressable communication protocol.

The address can be programmed by mean of the ONEPROGRAMMER_AP or with the addressing function of Teledata smoke detection.

ONEDETECTOR_AP is provided with tools for base numbering and locking pin against unwanted removal.



Short Circuit Isolator

All standard series devices are provided with short-circuit monitoring isolators on the intelligent loop's line and can be activated by the control panel.

Features

- Low profile optical and thermal detector to be combined with ONEBASE_AP
- Built with ABS plastic material with stabilized UV
- Modern and compact design, low aesthetical impact
- Integrated self adapting function, to suit enviromental changes
- Remote LED control option

Technical Specifications

Power supply *	27V
Average standby current consumption	90 uA @ 27 V
Remote output max current consumption (externally limited)	15 mA
Operating temperature range	-30 °C / +70 °C (no icing)
Humidity	95% RH (no condensation)
Height (standard base included)	48 mm
Diameter	92 mm
Weight (standard base included)	120 g

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Installation

This ONEDETECTOR_AP must be used in combination with compatible control panels employing the ONEPROTOCOLL communication protocol.

ONEDETECTOR_AP must be mounted on ONEBASE.

ONEBASE_AP supplied with a metal shorting spring installed between the two negative terminals and permits the continuity of the loop cabling to be tested after installation.

Connections to the ONEBASE_AP terminals are polarity sensitive, please check the wiring diagram in figure 2.

Remote Output Capability

Remote output capability is available as a standard feature so a remote indication lamp or a compatible platform sounder (check power requirements) may be wired to the base terminals.

If other equipment is connected to the remote output, its supply current must be eventually limited by using an adequate resistor. Consult the TECHNICAL SPECIFICATIONS table and assess the external device current absorption's value.

Setting The Address

ONEDETECTOR_AP can be addressed using a special hand-held programmer unit "ONEPROGRAMMER_AP".

Addresses may be selected from a range from 1 to 240.

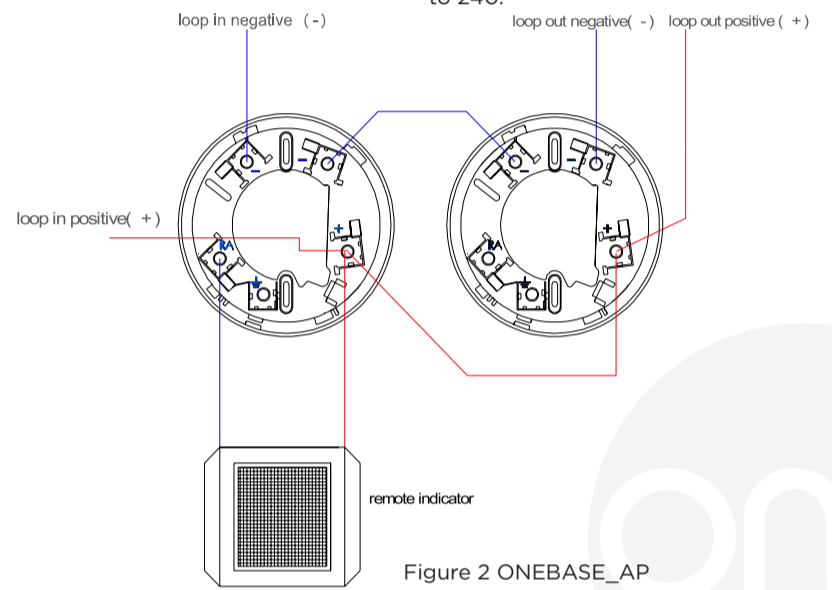


Figure 2 ONEBASE_AP

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Sensitivity Settings

A choice of four sensitivity levels are available by control panel selection. Level 1 is most sensitive, level 4 is least sensitive.

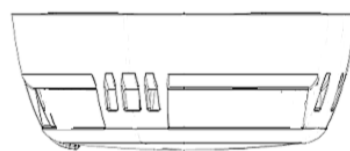


Figure 3

ONEDETECTOR Mounting

1. Position ONEDETECTOR_AP centrally on it's ONEBASE_AP
2. Rotate clockwise, ONEDETECTOR_AP will drop into its keyed location
3. Press more firmly to win the force of the contact springs
4. Continue to rotate a few degrees until the ONEDETECTOR_AP has fully engaged in the ONEBASE_AP. (Fig3)
5. Verify the alignment between the ONEDETECTOR_AP and the raised reference marks on the ONEBASE_AP.(Fig4)
6. Test ONEDETECTOR_AP as described in the section TESTING

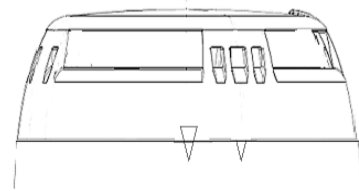
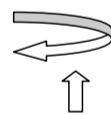


Figure 4

Mechanical Block Feature

ONEDETECTOR_AP can be locked on ONEBASE_AP by removing the small plastic pin and then inserting it in the appropriate slot on the side of ONEBASE_AP, see figure 5 part 1 and part 3.

To unlock the ONEDETECTOR_AP from its ONEBASE_AP, simply push the inserted pin towards the inside of the ONEBASE_AP using a small screwdriver.

In ONEBASE_AP there is also a detachable label to be inserted outside the ONEBASE_AP to identify the loop number and the sensor address, see figure 5 part 2.

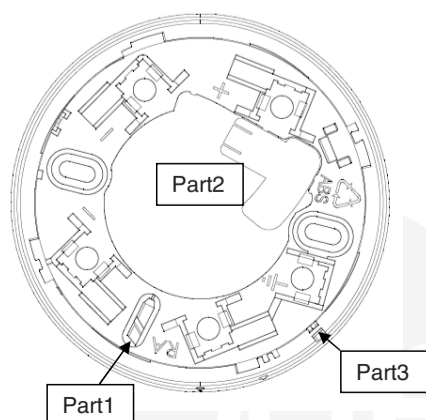


Figure 5

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Testing

ONEDETECTOR_AP can be tested after installation and during maintenance using the aerosol test and hair dryer or an heat tool. For this test, approved aerosols should be used to prevent damage and possible contamination of the sensor.

Teledata suggests using the special applicator to spray the aerosol.

ONEDETECTOR_AP will send an alarm message to the control panel.

If ONEDETECTOR_AP does not respond correctly to the test, it may be necessary to clean it, in this case the instructions in the maintenance chapter must be followed

Maintenance

Remove ONEDETECTOR_AP from its mounting ONEBASE_AP, inspect the smoke entry windows and the thermistor area, use a small, soft bristle brush to dislodge any evident contaminants such as insects, hair, ecc. Use a small vacuum tube or clean, dry and compressed air to suck up or blow away any remaining small particles from the smoke entry screen area and thermistor area. Use ONEPROGRAMMER_AP unit to read the percentage of dirt in the optical chamber, please refer to the ONEPROGRAMMER_AP instruction manual.

Reposition ONEDETECTOR_AP on your mounting ONEBASE_AP and check correct operation as described under the testing paragraph.

Warnings And Limitations

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards.

Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

Warranty

This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage.

Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified.

Full details on our warranty and product's returns policy can be obtained upon request



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