

# Fyreye Conventional Smoke Detector

DESIGNED TO EN54 PT 7:2000



The Fyreye ionisation smoke detector incorporates a single radioactive source (Americium  $241 < 0.7\mu\text{Ci}$ ) ionises two chambers which causes a small current to flow to electrodes in each chamber. One chamber is open to the atmosphere, the other one is sealed.

Any smoke entering the open chamber will cause the DC current to drop. This current is compared to the constant current in the sealed chamber.

The difference between these two values is monitored by the detector. If the difference is above the threshold level, the Detector will turn its LED on to signal a fire.

The dual chamber design is utilised to compensate for changes on atmospheric & environmental conditions, ensuring a very stable operation.

- Wide operating voltage 9-33 Volts
- Designed to meet approvals worldwide
- Can be used on security systems
- Compatible with a wide range of bases
- Attractive design
- Can be fitted to a duct-sampling unit, if flow less than 10 m/s
- Remote LED output
- Lockable to base to stop unauthorised removal

## Electrical Specification

Model	FD2000
Part No	804100
Supply Voltage	9-33V DC
Average quiescent current at 9V	35 $\mu$ A
Average quiescent current at 24V	40 $\mu$ A
Alarm Indication	Red LED
Alarm current at 9V	17mA
Alarm current at 24V	52mA Max
Alarm Trigger condition	3% per Metre smoke (obstruction)
Operating Temperature	-20 to +60°C (non-condensing or icing)
Max wind Speed	Not affected
Remote output Characteristics	Current Sink to -ve line (17mA max)
Compatible Bases	FE-CB Fyreye Common base FE-DB Fyreye Diode base FE-RB Fyreye Relay base
Ingress Protection	IP43
Detector size (without base)	100mm diameter x 40mm deep
Weight (without base)	94g



## Electrical Specification

Model	ZT-DU/OC	ZT-DU/ORL
Part No	48-050	48-051
Supply Voltage	9-33V DC	
Average quiescent current at 9V	35 $\mu$ A	
Average quiescent current at 24V	40 $\mu$ A	
Alarm Indication	Clear, Red in alarm	
Alarm current at 9V	17mA	32mA
Alarm current at 24V	52mA Max	67mA Max
Operating Temperature	-20 to +60°C	
Max wind Speed	Not affected	
Remote output Characteristics	Current Sink to -ve line (17mA max)	
Ingress Protection	IP43	
Enclosure size	125 x 125 x 100 mm (WxDxH)	
Weight	512g	600g

