

Z-DP3 duct probe units, enable a standard smoke detector or sensor to monitor the contents of extract ducting, be unaffected by dust and dirt in the air flow and be accessible for maintenance.

Two versions are available, the Z-DP3-Z6BS1 for fitting a conventional detector and the Z-DP3-Z7SB1 for analogue addressable sensors, (either ordered separately).

The detector consists of a white polycarbonate moulding containing a sealed termination chamber and upstream and downstream sensing enclosures, together with an appropriate base for the selected sensor.

Fixing externally to the vertical wall of the duct, the housing supports two sampling probes that penetrate horizontally, into the airflow, through holes cut in to the ducting side. The upstream sampling tube is perforated and its end sealed by an end cap. The downstream tube is shorter and provided with a 40o chamfer.

Air is drawn into the sensing enclosures through the upstream probe and is exhausted back into the airflow via the downstream chamber and probe.

The unit enclosure and probes are hermetically sealed, creating a difference in pressure between the upstream and downstream chambers. All of the air sample is continuously directed through the sensor chamber by a baffle moulded exactly to the sensors profile.

To perform correctly the probe should be positioned in a straight run of ducting, at least 3 times the duct width from any bend or branch. Where branch ducts from separate rooms run into a single extract, probe units should always be located on each of the branches in order to avoid smoke from one branch being diluted with clean air from other branches.

Sensors are fitted into the unit by twist and lock bases and a red LED indicator on the units housing confirms when the detector is in alarm.

Terminals are provided for zone wiring and a remote LED connection.



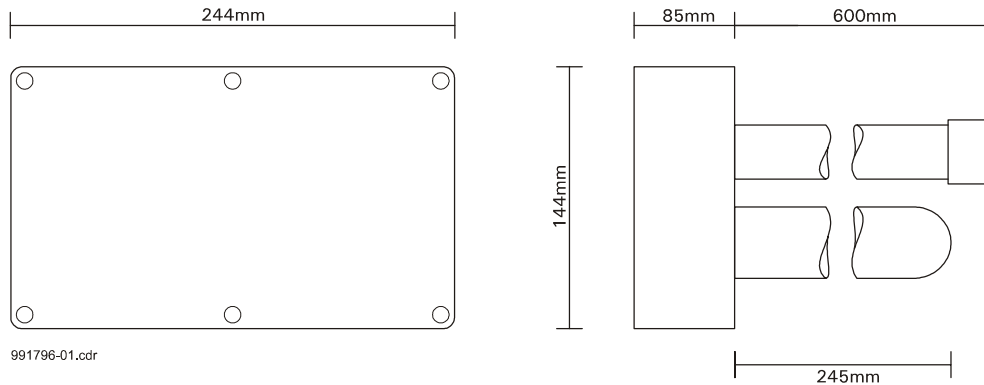
## Z-DP3

---

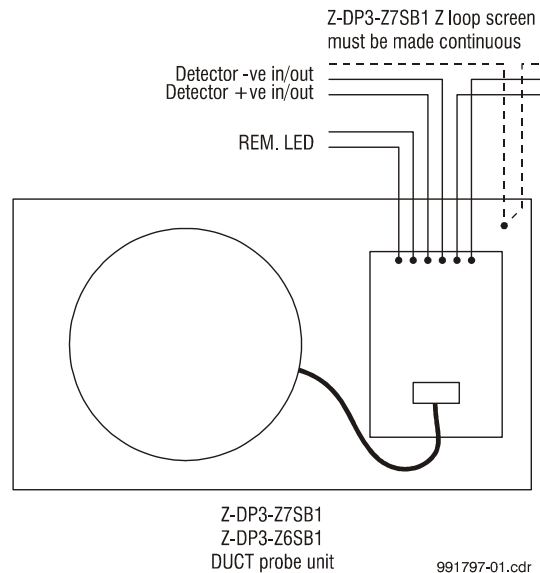
### Duct Smoke Detector

- **Effective operation.**
- **Uses standard sensor or detector.**
- **Separate termination chamber.**
- **Red alarm indicator.**
- **Easy to maintain and service.**

# Dimensions



# Wiring Diagram



# Specification



Model No.	Description	EN60529 rating	IP42
ZDP3-Z6SB1	Duct probe unit	Temp range	-20°C to +70°C
ZDP3-Z7SB1	Duct probe unit	Humidity range	20% to 95% RH (non condensing)
Compatibility	All ZC conventional and ZP analogue systems	Construction:	
Mounting	Screws to duct wall	Material	Enclosure – Polycarbonate Sampling probes – High impact plastic
Wiring	2 wire	Dimensions	
Monitoring:	Subject to control panel specification	Enclosure	244mm (W) x 144mm (H) x 85mm (D)
Indication	Alarm LED (red)	Upstream probe	600mm (L) x 32mm (OD)
Detection principle		Downstream probe	245mm (overall length) x 50mm (OD)
ZDP3-Z6SB1	Subject to conventional detector type	Colour	Enclosure – white Sampling probes - orange
ZDP3-Z7SB1	Subject to analogue detector type	Weight	1.3Kg (unit and probes)
Operating voltage	24Vdc		
Current	Subject to detector type		
Environmental:			
Application	Indoor use		

Ziton  
8 Newmarket Court Chippenham Drive Kingston Milton Keynes MK 10 0AQ United Kingdom  
Telephone +44 (0) 1908 281981 Fax +44 (0) 1908 282554 email zitonuk@ziton.spx.com

Ziton (Pty) Ltd  
Ziton House 555 Voortrekker Road Maitland 7405 PO Box 181 Maitland 7404 South Africa  
Telephone +27 (0)21 506 6000 Fax +27 (0)21 506 6100 email zitonsa@ziton.spx.com

Copyright © Ziton  
Ziton reserves the right to change specifications without notice in order to improve products or manufacturing methods. Although every effort is made to avoid errors, we reserve the right to correct typographical, photographic, clerical or printing errors.