

Orbis Conventional – Duct Sampling Unit

Features

- For use with Orbis Detectors
- Volt free normally opened or closed non-latching relay contact. Relay energises when detector is in alarm.
- Both sampling and exhaust pipes are fitted to the back box without the need for tools making installation easier.
- The cover of the duct smoke detector is monitored to ensure working integrity and if removed, causes a fault to appear at the fire alarm control panel.
- Easily accessible wire clamping terminals ensure secure and fast termination.
- Clear cover hence the alarm LED on the detector is visible at all times.
- Unique self-sealing test port allows the dispensing of test smoke via a needle into the duct smoke detector to be tested without the need to remove the cover.
- Sampling pipes available in 4 lengths.
- Weather resistant enclosure.

Description

The Orbis Conventional Duct Sampling Unit provides early detection of smoke in the air moving through heating and ventilation (HVAC) ducts in commercial and industrial premises. Its purpose is to prevent the re-circulation of smoke from an area on fire to areas unaffected by the fire when used with the Orbis detector.

The Duct Sampling Unit is designed to monitor levels of smoke in air ducts operating in air speeds of 0.5 to 20 meters per second. A volt-free changeover relay rated at 30V, 1A is also available which changes state during alarm.

The duct smoke detector can be fitted to any wall of a ventilation duct and has two tubes that extend into the duct through punched holes. The perforated sampling tube is placed in the airflow upstream of the exhaust tube which causes a pressure differential in the duct detector. Air is sucked up the sampling tube, across the detector and exhausted back into the air duct.

The duct smoke detector is designed to operate in ducts with a width of between 300mm and 3000mm. Using the 360mm sampling pipe supplied, an air duct of up to 540mm can be monitored. For duct widths greater than 540mm, three other lengths of sampling pipe are available.



Duct Sampling Unit cw Orbis Detector Base

Item Numbers

Australia	
214-0052	Orbis Duct Sampling Unit inc Detector Base
214-0060	Sampling pipe 300 to 760mm
214-0061	Sampling pipe 760 to 1500mm
214-0062	Sampling pipe 1500 to 3000mm
International	
53546-023AMP	Orbis Duct Sampling Unit inc Detector Base
53541-170	Sampling pipe 300 to 760mm
53541-171	Sampling pipe 760 to 1500mm
53541-172	Sampling pipe 1500 to 3000mm

Specifications

Housing & Cover	Grey - ABS & Transparent - ABS
Operating Voltage	9-33V DC
Dimension	115mm H x 340mm W x 60mm D
Temperature Range	0°C - +60°C
Relative humidity	0 - 85%, non condensing
Weight	5.5kg
Approvals	AS1603-13



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