

Fire detection and evacuation solutions that save lives.

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.

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 smoke detectors are recommended for indoor use only and are not designed to offer early warning of fire or to be used as a replacement for a standard fire detection system.



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