

## Venturi air duct module for IQ8Quad OTblue-LKM (802379)



### Part-No. 781443

HVAC duct smoke detector unit for usage of the OTblue-LKM Part No. 802379 air duct smoke detector in combination with Venturi tubes Part No. 781446, 781447 or 781448.

The system is based on an air probe (a so-called venturi tube) and a smoke detector housing. The venturi tube conducts the air from the duct to the detector housing, which is fitted to the outside of the duct, where a smoke detector detects potential fire particles in the air. In the event of an alarm, the smoke detector sends a signal to the control unit, which by means of relays then closes dampers, stops/starts fans and forwards the alarm, e.g. to the substation. The aerodynamic design of the housing and the pipe are crucially important for the ability to detect small levels of smoke particles in the air at an early stage.

Together with the venturi tube, the housing which is mounted on the outside of the air duct - creates an unsurpassed detection performance, even with low air volumes.

The patented venturi tube is fitted with aerodynamic flanges that are the most effective way of drawing air from the depths of the entire ventilation duct and delivering it to the smoke detector. This facilitates the discovery of flue gases even in small doses and at low air speeds. The Venturi tube enters the duct and leads the maximum concentration of flue gases out of the air duct through the detection chamber of the sensor and finally back into the duct. During operation, the detector and the alarm LED is visible so that an external parallel detector indicator is not required. The device also has an indicator so that the air flow can be easily inspected. The housing doesn't need to be opened for maintenance purposes. Inspection of the detector is performed quickly and easily via a separate opening in the front of the housing, e.g. test gas.

#### Features:

- Single-tube air analysis system based on the Venturi principle
- Optimum utilization of air flow velocity through new Venturi tube design
- Integrated maintenance opening in the front cover so that air duct smoke detector can be tested
- Suitable for air duct widths from 0.6 to 2.8 m
- Integrated air flow display

Type of protection	IP 54
Housing	ABS plastic
Color	gray
Weight	approx. 800 g
Dimensions	W: 180 mm H: 235 mm D: 183 mm



Please note that the detector must be mounted upright!



Construction kit includes pipe gasket and cap. The following items are not included: IQ8Quad OTblue LKM or detector base as well as the Venturi tube or filter cartridge.