

## Type VS-TRD



### FOR FUME CUPBOARD CONTROLLERS EASYLAB AND TCU-LON-II

Face velocity transducer for the variable, demand-based control of extract air flows in fume cupboards

- Non-contact measurement of the face velocity, hence not subject to wear
- For fume cupboards with vertical and horizontal sashes
- Automatic detection of thermal loads
- Simple installation into a drilled hole in the dome of the fume cupboard, also for multiple fume cupboards in a row
- Plug-in cable
- Measuring range 0 – 1 m/s

Additional application of the transducer

- For monitoring the face velocity with monitoring devices FMS-2

### **Application**

- Face velocity transducer Type VS-TRD for the LABCONTROL system
- For the demand-based control of variable volume flows in fume cupboards
- Connection to an EASYLAB controller TCU3, to a controller TCU-LON-II, or to monitoring system FMS-2
- Consideration of all sashes of a fume cupboard
- For fume cupboards with vertical and horizontal sashes, also for fume cupboards with sashes on two sides
- Increased safety for people working in labs
- For use in laboratories and in clean rooms in the pharmaceutical and semiconductor industries

### **Special characteristics**

- Demand-based fume cupboard control depending on the sash distance
- Recording of the face velocity at vertical and horizontal sashes as well as for both sashes on a fume cupboard
- Non-contact measurement of the face velocity, hence not subject to wear
- Constant face velocity (typically 0.5 m/s) within the set volume flow rate range due to cascade control of face velocity and volume flow
- Detection and safe dissipation of thermal loads due to automatic volume flow increase

#### Parts and characteristics

- Easy-to-install casing with sensor tube
- Sensitive electronics with integral temperature compensation
- Non-contact measurement of the face velocity using calorimetric principle; not subject to wear

#### Useful additions

- CAB-TRD: 5 m plug-in extension cable for face velocity transducer VS-TRD
- EasyConnect: Configuration software for the commissioning and diagnosis of EASYLAB components
- MConnect: Configuration software for the commissioning and diagnosis of the Type TFM/TPM monitoring devices and TCU-LON-II

#### Construction features

- Simple mounting to fume cupboards
- Conical sensor tube to be inserted into a drilled hole 20 – 21 mm in the dome of the fume cupboard
- Plug-in connecting cable 3 m

#### Materials and surfaces

- Plastic casing, black

#### Standards and guidelines

- Type certification: Volume flow control system for fume cupboards to EN 14175

## TECHNICAL INFORMATION

Function, Technical data, Specification text, Order code, Related products 

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Dimensions 

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## Installation details

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