

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 

Dimensions 

Installation details



TROX Middle East (LLC)



P.O. Box No. 31432
19 Street
Al Quoz Industrial Estate #3
Dubai
United Arab. Emirates
Tel.: +971 4 3417448
Fax: +971 4 3417449

Online-Services

- TROX Academy
- Your contact partner

Service-Hotlines

United Arab. Emirates

Tel.: +971 4 3417448

Fax: +971 4 3417449

[Contact](#)

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