

# FLOW MONITORING SYSTEMS





Over 30 years of innovative gas analysis!

- Gas flow velocity and flow rate measurement
- Continuous measurement of flue gas flow velocity (m/sec) using dynamic pressure measurement principle with averaging Pitot tubes

### FLOW RATE MEASUREMENT US DYNAMIC PRESSURE MEASURE

## Continuous measurement of flow velocity of flue gas and air streamings

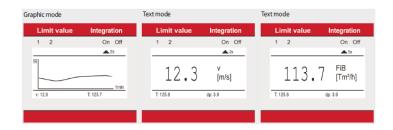
For the operation of a facility with streaming gases (e.g. flue gas, air, etc.) the continuous registration of the exhaust gas velocity respectively the flow as well as the temperature are often of substantial importance.

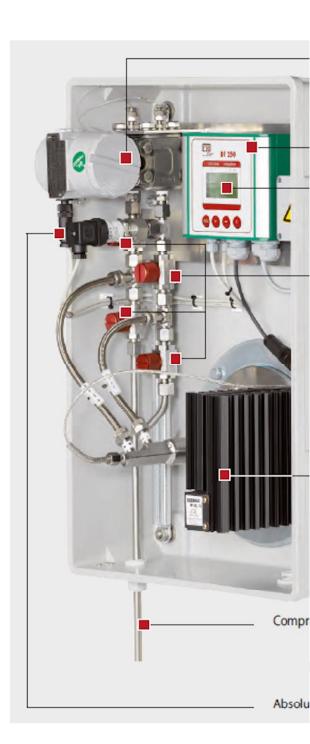
In case of continuous emission measurements the mass of pollutants has to be disclosed additionally (mass flow [kg/h]).

The flow measuring device DF 252 is a measuring system for the continuous registration of gas-, air velocity and temperature of gas flows in pipelines.

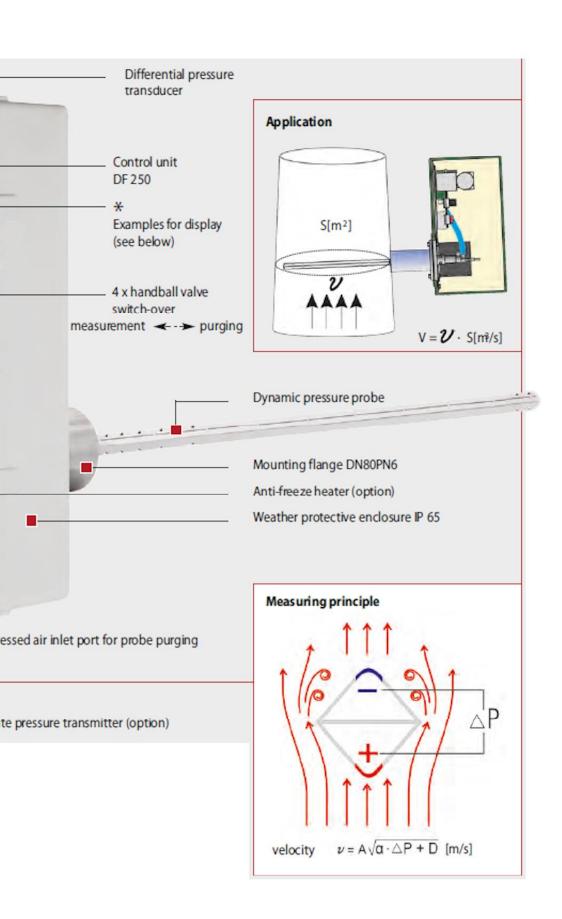
Moreover it is possible to display the flow in operational or norm state. The use of the back-pressure and Pt100-measuring principle guarantees a device simply to install and handle with the smallest possible influence of the velocity profile.

- Compact system of probe and control device, therefore easy installation
- On-site diagnosis of the facility's state due to a graphical display with high resolution showing on-line diagram
- Display of flow in norm state (i.n.) or operating state (i.o.) possible
- Display options in mbar, m/s, m³/h i.o. or m³/h i.n. as well as °C
- Display of absolute pressure in mbar optionally possible
- Simple installation with DN80PN6 flange for welding
- Low maintenance, handball valves for probe back-purging





## ING THE MENT PRINCIPLE





#### **TECHNICAL SPECIFICATIONS**

(no extra control panel necessary, Anti-freeze heater (option)  Protection class  IP 65 (fibre glass enclosure)  (H x W x D) 17.32" x 25.19" x 40.93" (440 x 640 x 1.040 mm) (incl. probe 19.68" (500 mm))  Weight  approx. 55 lbs. (25 kg)  Probe  Dynamic pressure probe with integrated Pt100 temperature sensor 11.81" (300 mm) up to 6.56' (2,000 mm) length, stainless steel  Flange  DN80PN6  Control unit  4 keys for parameterisation and operation Dot-Matrix-display with graphic diagram  Measuring ranges  Velocity: 3 30 m/s Flow i.o.: 01.000 Tm /h flow i.n.: 01.000 Tm /h (1 Tm /h = 1.000 m /h, 1.000 Tm /h = 1.000.000 m /h) Differential pressure: 0 300/600 "C 32 572/1,112 "F Abs. pressure (optional)  Media temperature  max. 536"F (280 "C) (higher temperatures on request) min. +5 "K above dewpoint  Ambient temperature below freezing)  Flow velocity  from approx. 3 30 m/s  Analogue signals  3 x 4 20 mA (can be chosen between: velocity, flow rate, differential pressure, temperature optionally absolute pressure)					
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	Power supply				
500 W with anti-freeze heater		EOO W with anti fronzo hoator			

Data subject to change without notice

