

Device Description

Flow Measurement Head INT512/24, INT512/230

Application

The Flow Measurement Head INT512/... is used to measure the airflow in the range of 1...10 m/s in ventilation and air conditioning plants.

Types

INT512/24	Flow measurement head with continuous output 0..10 V DC for mains supply 24 V AC
INT512/230	Flow measurement head with continuous output 0..10 V DC for mains supply 230 V AC

Technical data

Mains	INT512/24	24 V AC \pm 10 %; 50..60 Hz;
	INT512/230	230 V AC \pm 10 %; 50..60 Hz;
Output	0..10 V DC, max. 1 mA	
Duty cycle	100 %	
Measuring range	1..10 m/s, max. allowed flow rate = 35 m/s	

Measuring accuracy	\pm 3 % at 25°C	
Response time	after connection to mains supply < 15 s	
Fitting position	Flow in direction of arrow, see label on the housing and on the probe pipe.	
Ambient temperature	-5..+60°C (corresponds with the allowed medium temperature)	
Degree of enclosure protection	Probe	IP 20
	Connecting head	IP 65

Installation and maintenance instructions

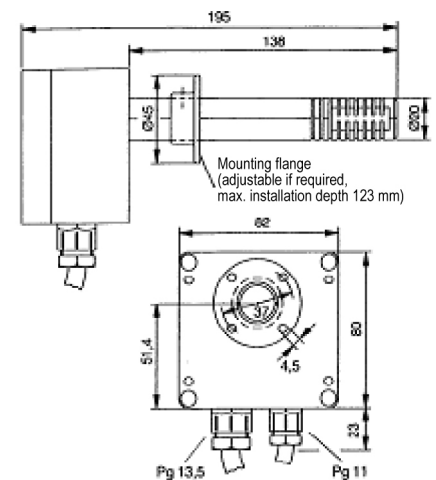
Installation at the air duct is carried out with the mounting flange. The max. installation depth of the probe pipe is 123 mm.

In order to avoid measurement errors, the following points must be observed, in addition to the operating conditions acc. to the technical data, when selecting the measuring location:

- Install in the area of low-turbulence flow
- Do not install directly behind bends
- Do not install directly behind damper registers or humidifiers
- Avoid soil sediments (e.g. fatty matters)
- Cleanse only in tension-free state: rinse probe with clear water



Dimensions



Installation



Electric installation with the device connection may be carried through by qualified expert personnel only.

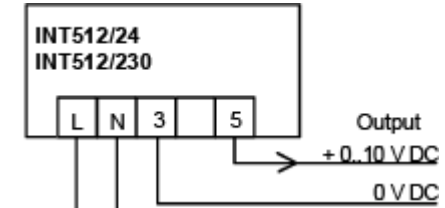
Danger This must be done in accordance with the VDE regulations and local specifications.
 Device connection to be done in accordance with valid plant connection scheme.

Function

The flow guard INT512/.. measures the airflow rate in the range of 1..10 m/s.

The continuous output signal is proportional to the flow rate, 0..10 V DC corresponds to 1..10 m/s.

Device connection



Phase | NULL
 Mains supply
 INT512/24: 24 V AC
 INT512/230: 230 V AC
 (Observe the type sign)