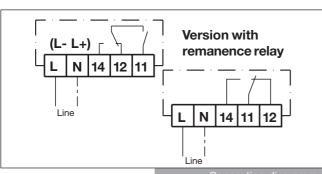
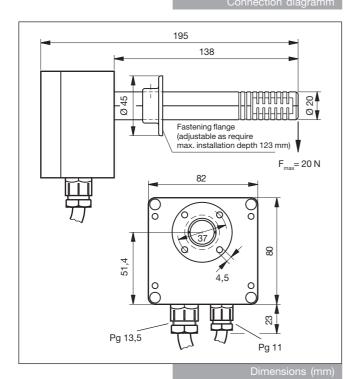
INT511®Air Flow Monitor

monitoring range 0.2 ... 8 m/s, with switching output







The unit must be connected by trained electrical personnel. All valid standards and instructions for installing electri-

cal components must be observed. Maximum values for supply voltage of this unit may not be exceeded.

Application:

For monitoring air flow in medium temperature ranges from

Functional description:

The KRIWAN INT511 air flow monitor controls air-flow velocities over a range of 0.2...8 m/s in accordance with the calorimetric principle. The switching point can be set within the adjustment range using a built-in potentiometer (left stop corresponds to the minimum sensitivity). The relay functions are displayed using LED (green = actual value > set value). To avoid a wipe contact on energizing, a second relay (yellow LED) in series pulls in

 $\text{-}20\,^{\circ}\text{C...} + 60\,^{\circ}\text{C},$ with temperature compensation.

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after 1 s, when the flow relay is already activated. During the start-up time, and if flow is > set value contact 11-14 is closed. If flow is < set value after this time expires, contact 11-12 is closed. INT511 devices with remanence relay do not have a yellow LED. The last relay condition, however, is kept when power fails or trips and can therefore be called off via a control master station for example.

Installation instruction:

To avoid monitoring errors, the following points should be opserved when selecting the monitoring site:

- Do only use in air medium!
- Do not touch the probe around the probe opening.
- Installation where there is low turbulence, if possible.
- Do not install directly behind the damper register.

 Avoid dirt deposits, especially any moistering with water, by suitable steps (filter in the ventilator system and so on).

Cleaning:

Dry cleaning is preferred. If necessary rinse with clear water with power disconnected. Restart only when the probe is dry.

Technical data

Devices with remanence relay (the rise rate of supply voltage must be 10 V/s at least):

AC 50/60 H	Hz 24 V :	±10 %	part no. 31 N 142 S22
Amb. temperature range			-20 °C+60 °C
Max. power consumption			3 VA
Monitoring range			0.28 m/s adjustable
Monitoring accuracy			± 5 % from measured value
Switching hysteresis			approx. 0.5 m/s
Start-up delay			approx. 120 s
Response time after			between approx. 5 s at high
start-up delay			airspeed setting and 40 s
			at low airspeed setting
Max. air humidity			≤85 %
Max. admis. flow rate			35 m/s
Duty cycle			100 % ED
Relay output			AC 250 V, max. 5 A, 300 VA ind.
			1 c/o contact, potentfree
Mounting	- probe		90° to flow direction
	- probe op	ening	in flow direction
Material	 terminal b 	ОХ	Polycarbonate
	- probe		PA 6 GF 30
Protection class EN 60529			
	 terminal b 	ох	IP65
	- probe		IP20
	- probe		IP54
Application with must estimate and IDC4 museum and the fallowings.			

Application with protection class IP54 presuppose the following: long term moistering with water conditioned by the system is not admissible. Maintenance intervals must be fixed in the way that dust deposition on the monitoring element falsificating the measuring value cannot occur.

subject to technical modification without notice