akribis

DATA SHEET

FloXact

Produal

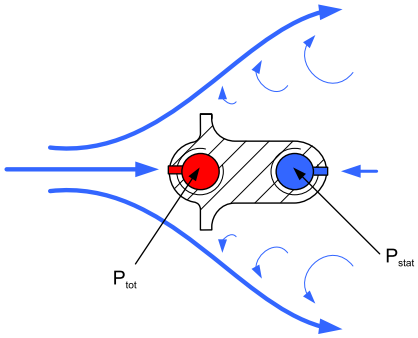
Distributed by AKRIBIS



FloXact airflow volume probes



The FloXact airflow volume probes are designed for airflow volume measurement, operating together with air volume transmitters or other transmitters with an airflow output. They are also easy to install to existing ventilation ducts. These probes operate on the pitot tube principle and measure the total (*Ptot*) and static (*Pstat*) pressure components of airflow according to the following figure.



Airflow direction

The probe collects the airflow measurement over several measuring points using multi-point averaging that is based on the *Log-Tchebycheff* method. The number of measuring points depends on the size and shape of the ventilation duct. The probe shape enables accurate measurement at air speeds of 1.0 m/s and above. The air volume transmitter can calculate the average airflow volume based on the differential pressure.

You can very easily connect these probes to Produal DPT-Flow airflow transmitters. The recommended model is DPT-Flow-1000-AZ-D because the typical pressure range in a ventilation duct is 0…250 Pa. The measurement range of DPT-Flow-1000-AZ-D is 0...1000 Pa. You can also connect the probe to a differential pressure transmitter. However, to achieve the best accuracy, use an output that is linear to airflow rather than pressure.

These probes have different models for round and rectangular ducts. The following options are available:

- Connectors for different hose inner diameters (4 / 6 mm)
- Two probe materials (aluminium / stainless steel)
- Metric and imperial lengths

The following table illustrates the required number of the probes in rectangular ducts. In round ducts, one probe is always enough.

Duct height	Number of probes
<300 mm	1

AKRIBIS · www.akribis.info · contacto@akribis.info

Duct height	Number of probes
301...600 mm	2
601...900 mm	3
901...1200 mm	4
1201...1500 mm	5
>1501 mm	6

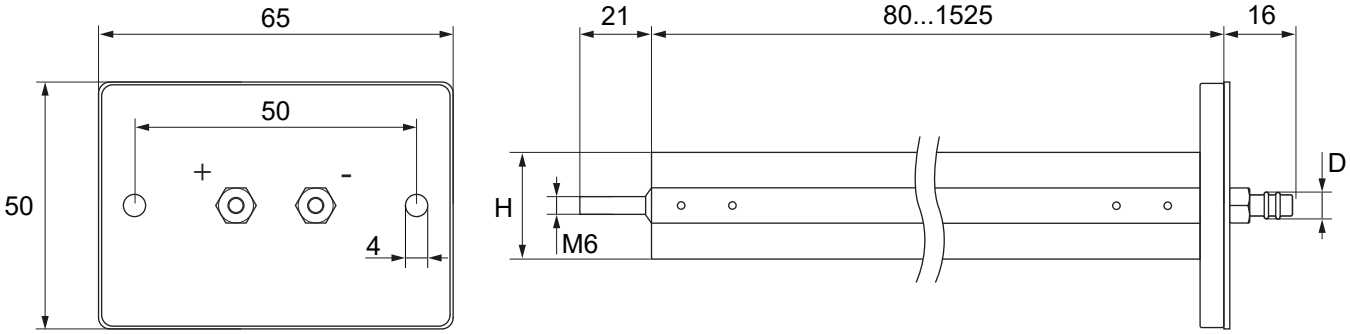
Technical specifications

Property	Value
Accuracy (air speed > 1 m/s)	±2 %
Hose connectors	
-R, -L, -RS and -LS models	Ø4.8 mm (compatible with hoses that have 4 mm inner diameter)
-6R, -6L, -6RS and -6LS models	Ø7.5 mm (compatible with hoses that have 6 mm inner diameter)
Medium	dry air or non-aggressive gas
Mounting	With screws on the duct 350 mm and longer probes are equipped with a Ø6 mm stud, washer and nut to secure the opposite end of the probe.
Materials	
Probe	
-R, -L, -6R and -6L models	T3015 aluminium
-RS, -LS, -6RS and -6LS models	SS316 stainless steel
Mounting plate	Mild steel
Hose connectors	Barbed brass
Gasket	EPDM rubber foam
Operating conditions	
Temperature	5...95 °C
Humidity	0..95 %rH, non condensing
Storage temperature	-20...95 °C
Warranty	2 years
Company certificates	
Quality management	ISO 9001
Environmental management	ISO 14001

AKRIBIS · www.akribis.info · contacto@akribis.info

Dimensions

All dimensions are in millimeters (mm).



Note: The M6 stud is only in 350 mm and longer probes.

Product	H
-R and -6R models with 202 mm or shorter probe length	15 mm
Other models	25 mm

Product	D
-R, -L, -RS and -LS models	4.8 mm
-6R, -6L, -6RS and -6LS models	7.5 mm

Ordering information

You can use the ordering guide below to generate ordering information for products you would like to order. For example, the ordering information for a stainless steel probe for 400 mm rectangular duct and connectors for 6 mm hose is as follows:

Product type: *FloXact-6LS400*
Product number: *1251F0400A*

AKRIBIS · www.akribis.info · contacto@akribis.info

			Type	0	1	2	3
0	Airflow probes		FloXact	1251			
1	Probe type	For round duct, aluminium, connectors for 4 mm hose	-R		R		
		For rectangular duct, aluminium, connectors for 4 mm hose	-L		L		
		For round duct, stainless steel, connectors for 4 mm hose	-RS		A		
		For rectangular duct, stainless steel, connectors for 4 mm hose	-LS		B		
		For round duct, aluminium, connectors for 6 mm hose	-6R		C		
		For rectangular duct, aluminium, connectors for 6 mm hose	-6L		D		
		For round duct, stainless steel, connectors for 6 mm hose	-6RS		E		
		For rectangular duct, stainless steel, connectors for 6 mm hose	-6LS		F		
2	Length[1)]		XXXX			XXXX	
3	Length unit	Millimeters					A
		Inches					B

[1)] Write the length in millimeters or inches and select the length unit in section 3. Add leading zeros to the product number column but not to the type column.

The minimum length for -RS, -LS, -6RS and -6LS models is 250 mm.

AKRIBIS · www.akribis.info · contacto@akribis.info