

Pitot tube Type L with TC K

Integrated temperature probe

Pitot tube with ellipsoidal head.

with connection cable length 1,5 m. Body made of stainless steel.

static pressure.

An intake for total pressure and 6 holes for

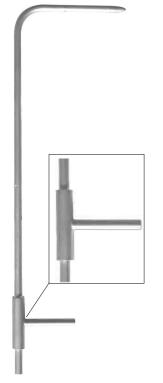
Sheathed thermocouple K probe integrated,

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

Pitot tube **Type L**



Pitot tube Type L



Pitot tube with ellipsoidal head. An intake for total pressure and 6 holes for static pressure. Body made of stainless steel.

Features

Norm	AFNOR NFX10-112. Annex 4 dated 14.9.77.
	This norm meets the requirements of the
	International Norm ISO 3966.
Model	NPL curved with ellipsoidal head
Coefficient	1,0015±0,01
Accuracy	Better than 1 %, for a ± 10 ° alignment to the fluid
	flow.
Quality	stainless steel 316 L
Operating temperature	from 0 to 600 °C in standard and up to 1000 °C
	in option (except Ø 3 mm).

- The extent error of an air velocity or airflow measurement with a KIMO Pitot tube remains inferior to 2%, when being carried out as per the NFX10-112 norm.
- It is recommended to carry out a calibration of the Pitot tube, in order to determine its exact coefficient.

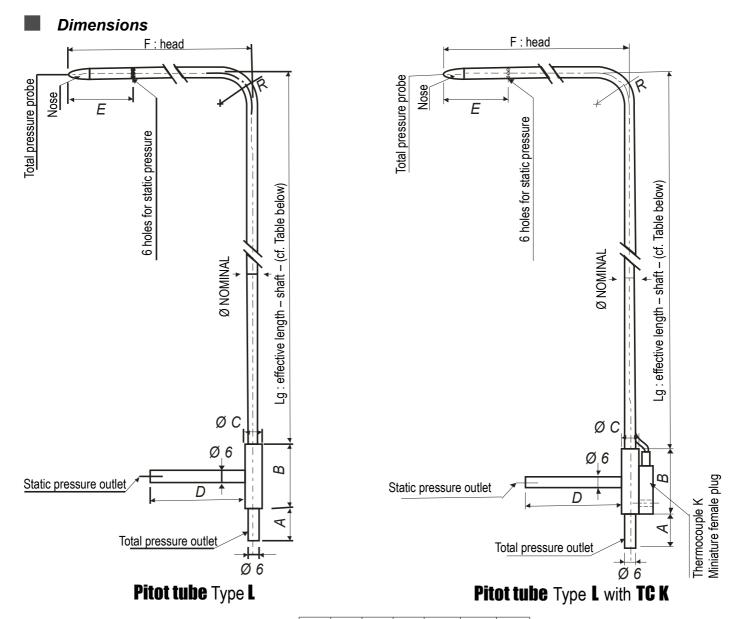
Presentation

KIMO offers a wide range of high-quality and accurate **Pitot tubes**, as per the AFNOR NFX 10-112 norm.

These **Pitot tubes**, when being connected to a differential column / or needle / or electronical manometer, can measure the dynamic pressure of a moving fluid in a duct, and then can deduct its air velocity in m/s and its airflow in m3/h.

These **Pitot tubes** are used in HVAC field, vacuum cleaning and pneumatical transport. They are mainly dedicated to measure hot and particle-charged air, and also high air velocity.





	A	В	ØC	D	Е	F	R
Pitot tube Ø 3 mm	17	32	10	30	25	48	9
Pitot tube Ø 6 mm	25	40	10	45	48	96	18
Pitot tube Ø 8 mm	25	40	10	45	64	128	24
Pitot tube Ø 12 mm	25	50	16	60	96	192	36
Pitot tube Ø 14 mm	25	50	16	60	112	224	42

Ranges

Pitot tube Type L				
Diameter	Reference	Length		
Ø 3 mm	TPL-03-100 TPL-03-200 TPL-03-300	100 mm 200 mm 300 mm		
Ø 6 mm	TPL-06-300 TPL-06-500 TPL-06-800	300mm 500 mm 800 mm		
Ø 8 mm	TPL-08-1000 TPL-08-1250	1000 mm 1250 mm		
Ø 12 mm	TPL-12-1500 TPL-12-2000	1500 mm 2000 mm		
Ø 14 mm	TPL-14-2500 TPL-14-3000	2500 mm 3000 mm		

Pitot tube Type L with TC K

Diameter	Reference	Length		
Ø 3 mm	TPL-03-100-T TPL-03-200-T TPL-03-300-T	100 mm 200 mm 300 mm		
Ø 6 mm	TPL-06-300-T TPL-06-500-T TPL-06-800-T	300 mm 500 mm 800 mm		
Ø 8 mm	TPL-08-1000-T TPL-08-1250-T	1000 mm 1250 mm		
Ø 12 mm	TPL-12-1500-T TPL-12-2000-T	1500 mm 2000 mm		
Ø 14 mm	TPL-14-2500-T TPL-14-3000-T	2500 mm 3000 mm		

Operating

The **Pitot tube** must be introduced perpendicularly into the duct, in several points pre-determined (see table "location of measuring points").

The head (ending with an ellipsoidal nose) must be maintained parallel and facing the flow.

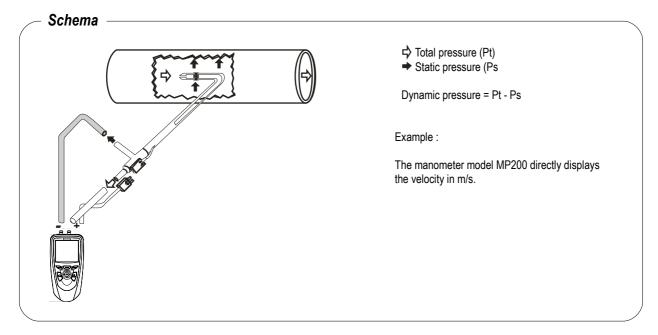
The total pressure (+) catched by the nose, is connected to the + of the manometer

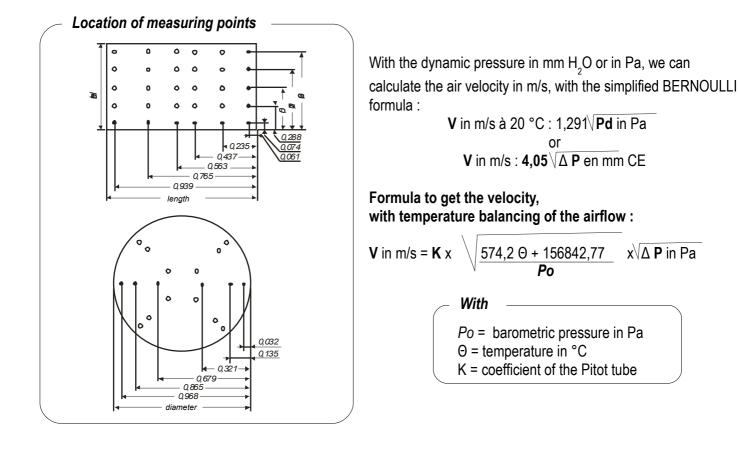
The static pressure (-) catched by the holes of the head, is connected to the - of the manometer.

The connection cable of the thermocouple K probe is connected to the thermocouple K inlet of the manometer (only on the **Pitot type L with TC K**).

Then, the instrument can display the dynamic pressure, also named "velocity pressure".

The dynamic pressure corresponds to the difference between the total pressure and the static pressure : Pd = Pt - Ps





Accessories

- Connection glands made of nickel plated brass (to install the Pitot tube in a fixed location)
- · Clamp made of stainless steel and cast iron
- · Sliding connections with nipple, made of stainless steel of Teflon
- Extension cable for thermocouple K class 1 :
- Rubber sealing caps : come in a 10-unit bag
- Caps : come in a 10-unit bag
- Graduation (mm) red-marked on the shaft
- Tubes
- Straight **Pitot tube type L** and **type L with TC K** : You can directly make the measurements by plunging this tube into the air duct.

Diameters and dimensions : same as the $\ensuremath{\textbf{Pitot tube}}$ NPL curved.

Feel free to contact KIMO for any special case, any special manufacturing.





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