

KAPT SERIES PITOT TUBE

A Pitot Tube is used to measure speed relative to the surrounding air. The assembly is made up of a pair of concentric tubes. The ellipsoidal nose cone at the tip has a small aperture in the end connected to the inner tube, whilst an annular ring of holes on the outer tube senses the static/surrounding air pressure.

By measuring the difference between the air pressure of the inner and outer tubes (see the KA Sensors KAP Differential Pressure Sensor), the speed of the vehicle can be sensed, measured and calculated.

The KAPT Pitot Tube is an in house designed and manufactured product that is ideally partnered with the KA Sensors Differential Pressure Sensor (KAP). Individually or used together they offer a cost effective high performance solution for dynamic pressure measurements in demanding motorsport and automotive applications. These are ideal for high precision data acquisition or control systems.

The transducers offer a high level of reliability and endurance, they are protected against the high vibration, shock and high temperatures found in motorsport. The sensor is also suitable for wet/wet installations.

Whilst a standard sized KAPT is available, a fully bespoke custom service is also available.

TECHNICAL SPECIFICATIONS

Material	316 grade stainless steel
Outer/Static Tube	6mm ID
Inner/Dynamic Tube	2mm ID
Horizontal length	100mm standard (others available)
Vertical Height	150mm standard (others available)
Ellipsoidal/Dynamic Aperture	1mm
Annular/Static Aperture	4 x 1mm
Dynamic Connection	4mm Barb fitting
Static Connection	4mm Barb fitting
Weight	35g
Options	Reach, deck height and labelling

KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

Sense Measure Control

Features

- *Stainless Steel*
- *Precision Engineered*
- *Bespoke Service*
- *Rugged Design*
- *Partners KAP*

Applications

- *Aerodynamics*
- *Air Speed*

Contact us

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KAlibrated solutions for motorsport

KAfigurator

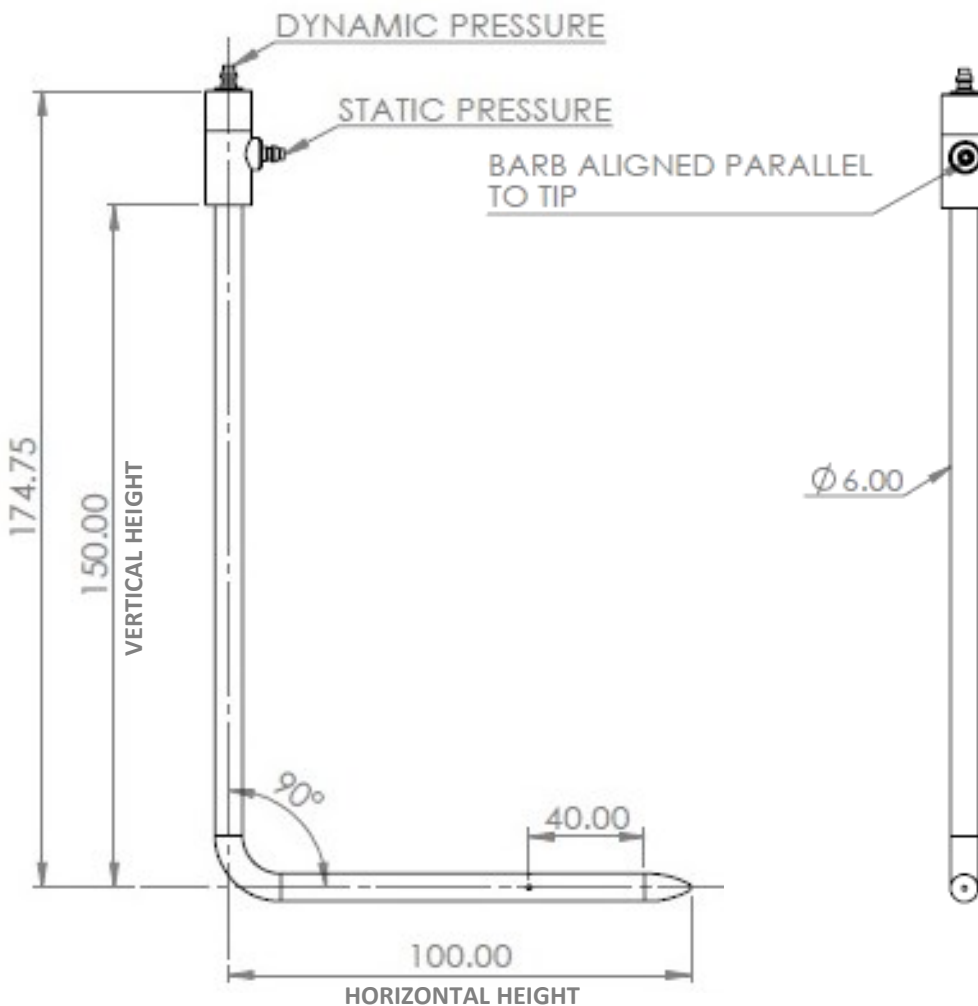
KAPT	010	030	000
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Horizontal Length	10	010	
Vertical Height	015		015
	030		030
Special Codes	None		000

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

MECHANICAL DETAILS

Drawing displays a KAPT-10-15-000 - other sizes are available, please contact us with your requirements.



CONNECTION DETAILS

Static Connection	Dynamic Connection
4mm Barb	4mm Barb

Sense Measure Control

Sensors for

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services for

- Data Logging
- Telemetry
- Controls
- Wiring
- Design

KA Sensors are

- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly