

COMBINED PITOT-STATIC TUBE



COMBINED PITOT-STATIC FEATURES:

The Pitot-Static tube is designed to provide both dynamic and static pressure measurements in a single package. Pitot-Static tube is made of strong and light carbon fiber tubes and aircraft grade aluminum for maximum rigidity. System can be mounted and removed using two screws for simple UAV transportation.

Available in custom length to suit various UAV applications.



41 GRAM TOTAL WEIGHT



AVAILABLE IN CUSTOM LENGTH

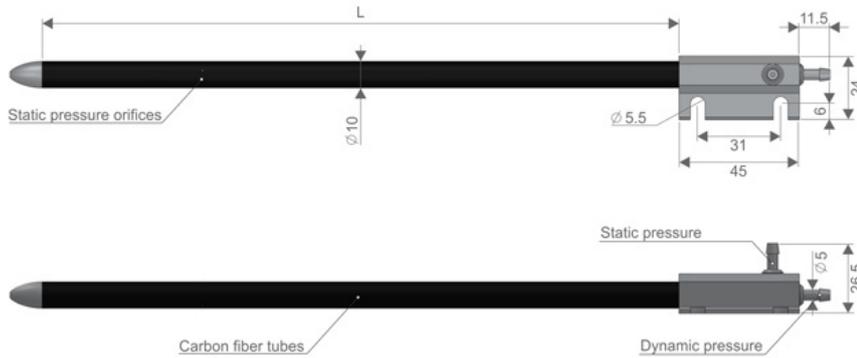
SPECIFICATIONS

Parameter	Value
Weight	41 grams (for L=238 mm) / 1.45 oz (for L=9,4 inch)
Length L	Up to 600 mm / 23,6 inch
Mounting method	Two M5 screws / #10 UNF or UNC
Pressure connections	4 mm or 5/32 inch ID Tygon tubing
Operating temperature	-50 °C to +85 °C

COMBINED PITOT-STATIC TUBE



UNMANNED PLATFORMS
AND SUBSYSTEMS



PITOT-STATIC LENGTH SELECTION

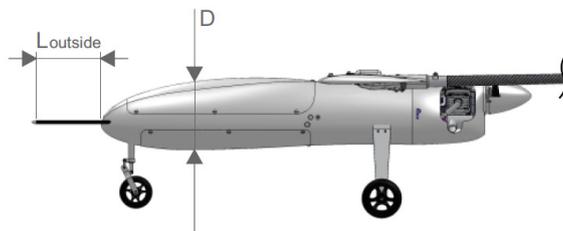
NOSE MOUNTING CONFIGURATION:

The following recommendations* can be used for nose mounting configuration of the Pitot-Static assembly:

$$L_{\text{OUTSIDE}} = 1.2 \times D \quad L = L_{\text{OUTSIDE}} + L_{\text{INSIDE}}$$

where, L_{outside} is the length of the Pitot-Static tube that is located ahead of the streamlined nose shape, D is the maximum diameter of the fuselage body, L_{inside} is the length of the tube which is located inside the fuselage and L is the total length of the Pitot-Static tube. Please specify the L dimension during the ordering process, based on your particular mounting configuration.

* Note: the optimum Pitot- Static tube length is highly dependent on the actual flow around a particular shape.



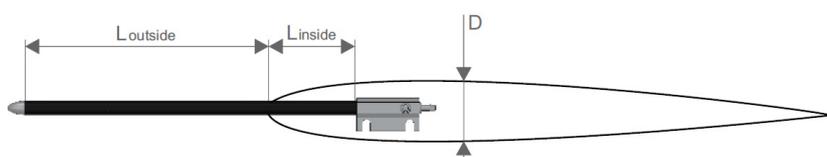
WING MOUNTING CONFIGURATION:

The following recommendations* can be used for wing mounting configuration of the Pitot-Static assembly:

$$L_{\text{OUTSIDE}} = 10 \times T \quad L = L_{\text{OUTSIDE}} + L_{\text{INSIDE}}$$

where, L_{outside} is the length of the Pitot-Static tube that is located ahead of the streamlined nose shape, T is the maximum thickness of the airfoil, L_{inside} is the length from the leading edge of the wing to the mounting bracket and L is the total length of the Pitot-Static tube. Please specify the L dimension during the ordering process, based on your particular mounting configuration. The Pitot-Static assembly needs to be mounted outboard from the fuselage towards the tip of the wing so that the influence of the fuselage on the measured airflow is minimized.

* Note: the optimum Pitot- Static tube length is highly dependent on the actual flow around a particular shape.



The equipment described herein is subject to export regulations and may require a license prior to export. Imagery for illustrative purposes only. Specifications are subject to change without notice. 03/2021.

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