



PSS-8LS / L-Shaped Pitot-Static Probe

The PSS-8LS L-shaped pitot-static probe provides static and total pressure in a single probe. The system is optimized for smaller UAV applications. It is light, rigid and durable.



The probe features Simtec's PSS-8 tube on a strong and light L-shape mast. The probe is made of strong aircraft grade aluminum for maximum rigidity. The mount can be attached on the UAV using four M3 screws. To keep the pressure lag of the system to a minimum and balanced between total (Pt) and static pressure (Ps) the internal volume of the system is kept as low as possible.

Specification

Parameter	Value
Mass	approx 0.030 kg
Pressure Nipples	Ø 2mm Total Pressure (Pt) and Static Pressure (Ps)
Operating Temperature	-55°C to + 85°C
Mounting	Four M3 screws
Overpressure	Do not apply overpressure above 1'500 hPa abs. for leakage testing

Part Numbers

SIM-63F-2ED

Revision 2, August 2019

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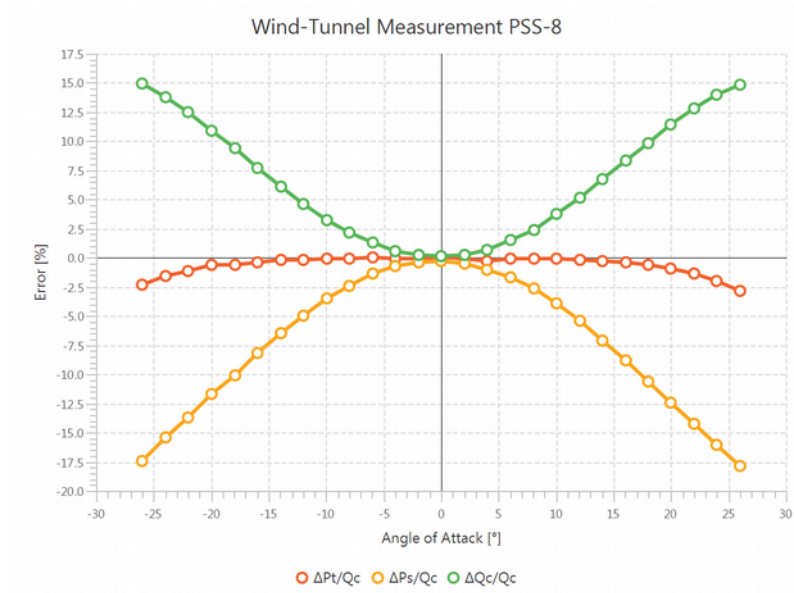
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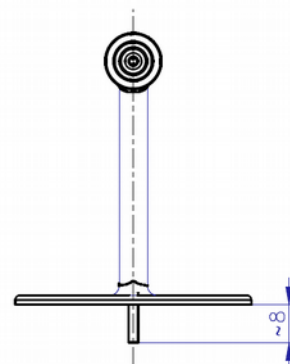
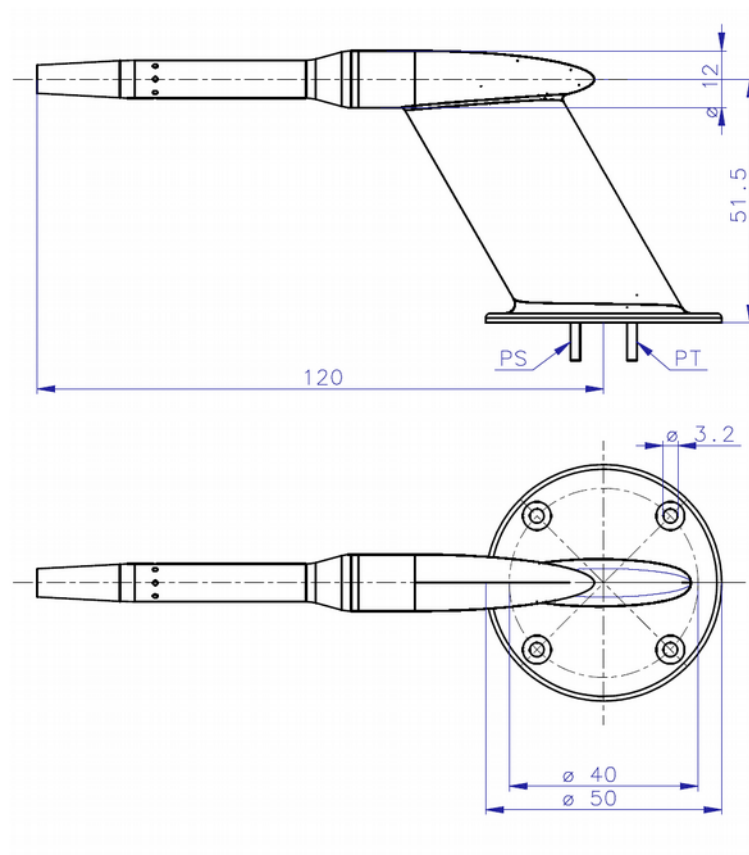


Aerodynamic Properties

The probe has been designed and extensively tested in the wind-tunnel to get the best performance even at high angle of attack and side-slip. The probe is designed to have minimal probe errors if placed in straight airstream.



Dimensions



Material
 Probe: Aluminum 7075 anodized
 Mast: Aluminum SLS/AlSi10Mg
 Mass approx. 0.030kg

Doc.ID: DOC-63F-2ED-84
 Part.No: SIM-63F-2ED
 Date: 08/14/19
 Revision: 4
 Scale: 1:1

Gen. Tolerances:
 ISO-2768-M (fine)

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PSS-8 L-Shape