
Pitot Hardware Manual

Release 1.2

Embention

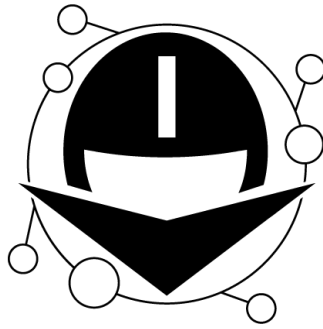
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PITOT | VERONTE
A V I O N I C S

Pitot Probe is a straight pitot probe for air speed measurement.

Warning: Select your version before reading any user manual. The following image shows where to select a version from any Embention user manual.

The screenshot shows the Embention website interface. At the top right, there is a navigation bar with a dropdown menu labeled "Version-4.8". This dropdown menu is open, showing two options: "4.5" and "4.8". A red arrow points from the "4.8" option in the dropdown menu down to the main content area of the page. The main content area features the title "1x Hardware Manual", the Pitot Veronte logo, and the text "VERONTE AUTOPILOTS". Below the logo, there is a small text block: "Veronte Autopilot 1x is a miniaturized high reliability avionics system for advanced control of unmanned systems." At the bottom of the page, the version and date are listed: "Version: UM.305.4.8" and "Date: 2023-11-24".

INTRODUCTION



Fig. 1: Pitot Probe

Straight pitot probe for air speed measurement in any kind of aircraft.

2.1 Part List

This product includes the following devices:



Fig. 1: Pitot parts

1. **Tube cap:** This part shall be screwed after connecting the air tube.
2. **Inner tube:** For the fittings it is recommended to use a polyurethane tube of 2.5 mm inner diameter and 4 mm outer diameter, in order to connect it to the dynamic pressure input of the [Veronte Autopilot 1x](#).
3. **Connector body:** This part shall be installed in the inner side of the fuselage. Epoxy can be used to fix it or any other alternative mechanical fixation method.
4. **External Part:** This part is placed outside of the aircraft. It takes the air for speed measurement and can be assembled before operation or disassembled after operation by unscrewing it.

These parts are connected with metric M5 thread. Users can employ M5 dust caps to protect them for storage.

2.2 Mechanical Specifications

Specification	Value
Weight	13 g
Length	196 mm
Outputs	Dynamic Pressure
Materials	Aluminum 7075-T6 & carbon fiber

2.2.1 Dimensions

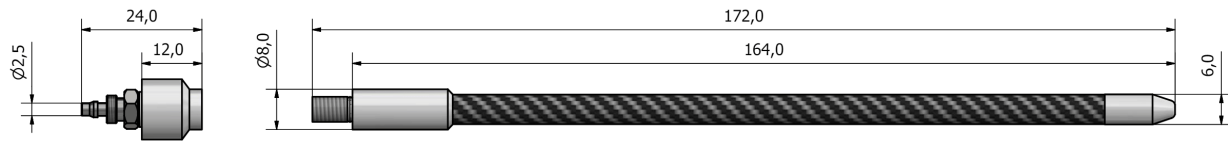


Fig. 2: Pitot dimensions (mm)

2.2.2 Location

It is recommended to locate the pitot in a region of undisturbed airflow, usually on the wing or the front section of the aircraft (nose).

CONTACT DATA

You can contact Embention if you need further help and support.

Embention contact data is as follows:

- Email: support@embention.com
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