UAV FACTORY

UNMANNED PLATFORMS AND SUBSYSTEMS

Datasheet v 2.0

Heated Pitot - Static Probe

- *Lightest commercially available Heated Pitot-Static Probe*
- *58 grams total weight*
- *19 W continuous power*
- *Heated ports with temperature control system*
- *Fault detection signal output*
- *Reverse polarity protection*

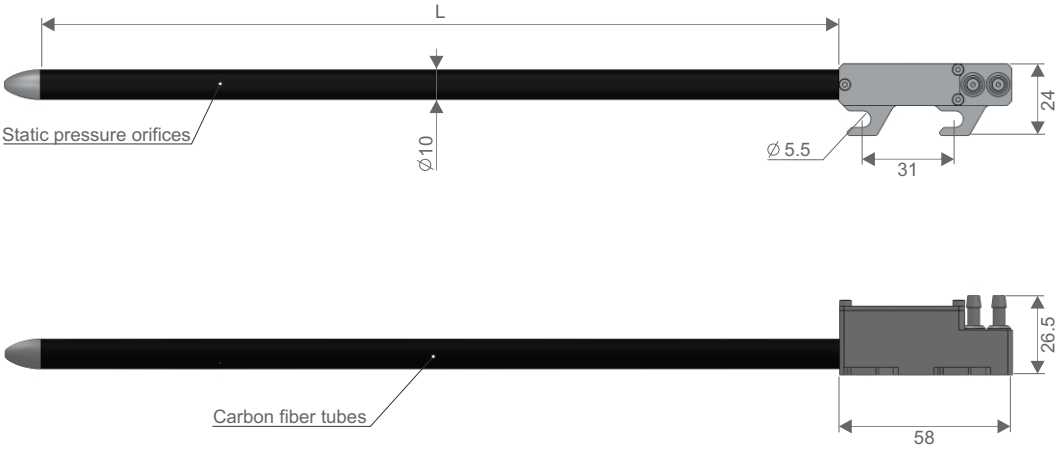
UAV Factory's heated Pitot-Static Tube is the lightest and most power efficient commercially available probe for small unmanned aircraft vehicles (UAV). Manufactured from carbon fiber and aircraft grade aluminum, this probe provides both dynamic and static pressure measurements in a single ultra-light and rigid package. The simple mechanical interface allows quick removal.

The combined dynamic and static port heating system is fully integrated into the tube which allows for minimal power consumption. An onboard feedback controller continuously regulates the temperature of the probe and automatically switches off the heating element when the required temperature is reached. An additional signal output monitors the heating systems and detects fault conditions.

Mechanical Specifications:

Parameter	Value
Weight	58 grams (for L=238 mm) / 2.00 oz (for L=9.4 inch)
Length L	Standard length L=238 mm / 9.4 inch lengths up to 600 mm / 23 inch
Mounting method	Two M5 screws / #10 UNF or UNC
Pressure tubing	4 mm or 5/32 inch ID Tygon tubing
Operating temperature	-50°C to +85°C
Maximum UAV continuous airspeed at -50°C	100 kmh / 62mph

Dimensions:



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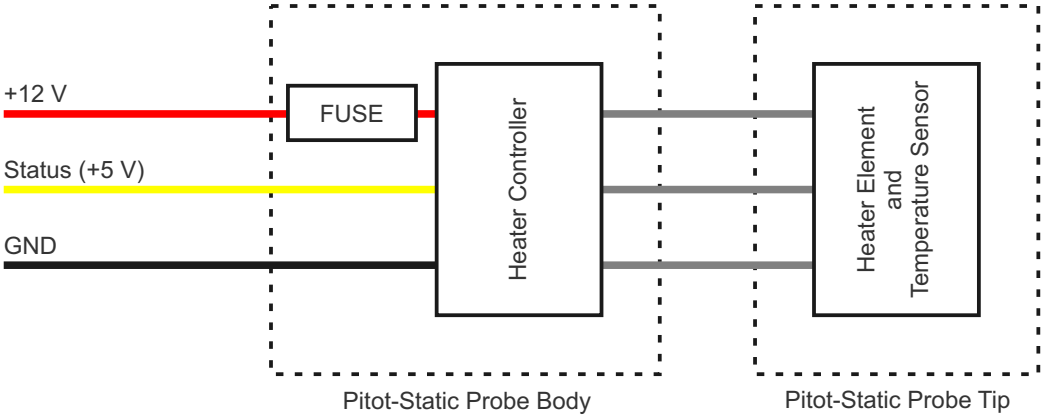
Electrical Specifications:

Parameter	Value
Operating voltage	12 V
Status signal output voltage	5 V
Maximum current draw	1.6 A
Maximum power consumption	19 W
Average power consumption	Dependent on ambient temperature
Built-in fuse current rating	2 A

Electrical Heater Features:

The Pitot-Static heater is regulated by an integrated control board. The probe is equipped with a status output signal to detect fault conditions in case of device failure, power loss, or temperature fall below the critical level. The status signal has a +5 V logic level which indicates no fault condition, 0 V logic level indicates one of the fail states described above. The probe is protected by a 2 A fuse and has three connection wires: red (+12 V; input), black (GND) and yellow (+5 V; status signal output).



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