



## ANGLE OF ATTACK PITOT

### FEATURES

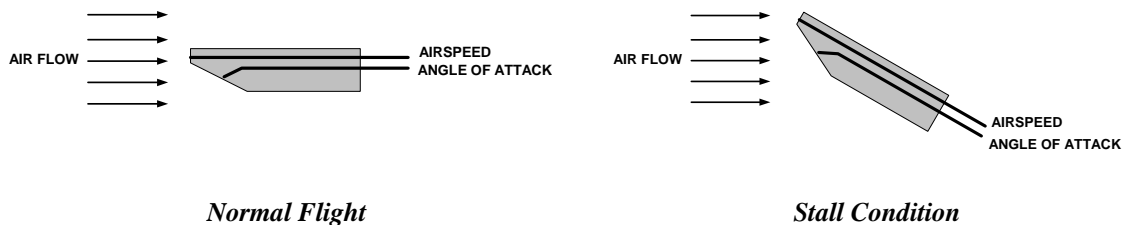
- Stall Warning
- Airspeed
- Low Cost



### GENERAL

Dynon's optional AOA pitot probe compliments the EFIS-D10A and is designed to enhance general aviation safety by providing Angle of Attack (AOA) information to the pilot to prevent unanticipated stalls. The design combines a standard airspeed pitot tube with an additional sensing port for AOA dependant pressure.

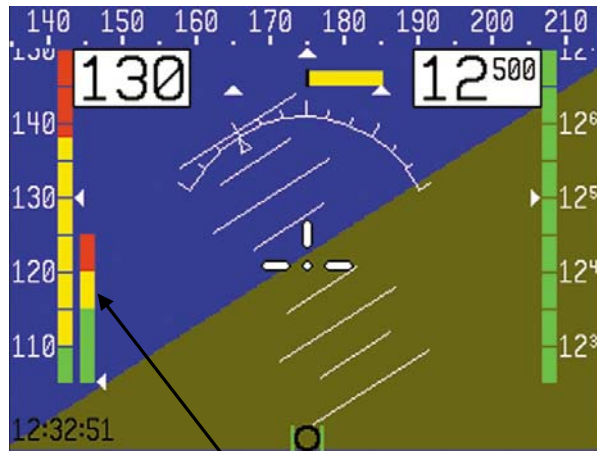
The concept behind Dynon's design is illustrated in the diagrams below. Under normal flying conditions the airspeed pitot port is positioned parallel to the airflow across the wing. In this condition the airspeed port has an optimized view of the pressure while the separate AOA port views relatively little pressure due to its specially designed angle. As the angle of attack increases, the AOA port becomes exposed to greater pressure while the airspeed port remains constant.



The pressure from each port is delivered via separate airlines to the EFIS-D10A where they are compared to previously learned scenarios specific to that aircraft.

The AOA is indicated on the EFIS display as a vertical color-coded tape with green, yellow and red areas. Once calibrated, AOA's correlating to stall conditions will be indicated with the pointer positioned in the red area of the tape.

Installation on each airplane is critical to assure the pitot port inlets are properly positioned. Once installed and flying, the EFIS-D10A needs to be calibrated to the individual plane by running it through a series of pitch oscillations and stalls in various flight configurations.



*Angle of Attack Tape*

## **MOUNTING**

All Dynon AOA Pitot's require a means for mounting to the aircraft and were designed to accommodate GretzAero's PH502-12CR (AN5812 series) pitot mount. See [www.gretzaero.com](http://www.gretzaero.com) for more detail or Aircraft Spruce part number 10-01950.

## **SPECIFICATIONS**

Size: 7.9" L x 2.5" H x 0.75 W  
Weight: 160 grams  
Tube Connections: 3/16" OD Soft Alum  
Construction: Aluminum

## **ORDERING INFORMATION**

100142-000 AOA Probe