

# FrSky Electronic Co., Ltd. ASS-70/ASS-100 Air Speed Sensor



## Instruction Manual

**NOTICE:** All instructions, warranties and other collateral documents are subject to change at the sole discretion of FrSky Electronic Co., Ltd. For further information, please visit [www.frsky-rc.com](http://www.frsky-rc.com) and click the SUPPORT tab for this product.

Thank you for purchasing FrSky Smart Port Air Speed Sensor ASS-70/ASS-100. It is designed for FrSky Smart Port enabled system, and can provide Air Speed data for your entire flight. In order to fully enjoy the benefit of it, please read the instruction manual carefully and set up the device as described below.

### Specifications:

#### ASS-70 :

Operational Voltage: DC 4 -10 V  
Current consumption: 20mA@5V  
Measure airspeed range: 0~270km/h (0~167.7mile/h )  
Circuit Board: Weight 7 g, dimensions 33.29×22.26×12.55mm  
Pitot Tube: Weight 4 g, length 101mm, diameter 2.6 mm  
Pitot Tube Hose: Silicon, clear, 3 feet (1 meter), 2.2mm ID, 3.8mm OD  
Reset button – user calibration  
Compatibility: FrSky Smart Port enabled receivers, such as X8R, X6R, X4R, etc.

#### ASS-100 :

Operational Voltage: DC 4 -10 V  
Current consumption: 25mA@5V  
Measure airspeed range: 0~360km/h (0~223.7mile/h )  
Circuit Board: Weight 5 g, dimensions 33.14×17.14×10.45mm  
Pitot Tube: Weight 4 g, length 101mm, diameter 2.6 mm  
Pitot Tube Hose: Silicon, clear, 3 feet (1 meter), 2.2mm ID, 3.8mm OD  
Reset button – user calibration  
Compatibility: FrSky Smart Port enabled receivers, such as X8R, X6R, X4R, etc.

### Set up:

#### Following the steps to finish the setting procedures:

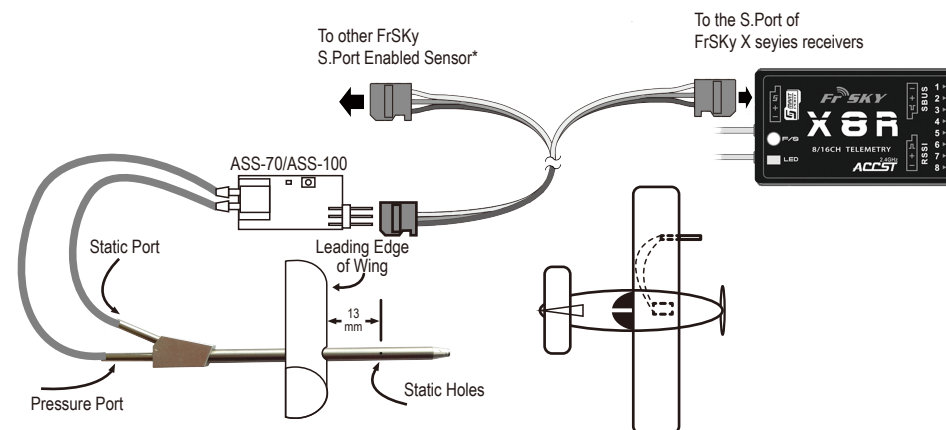
1. Assembled pitot tube with the circuit board into a Air Speed Sensor, as shown in figure.

**Notice: Avoiding any loose tubing.**

2. Choose the position of the Air Speed Sensor, the static holes on the pitot tube (As Figure) should extend at least 13mm past the wing's leading edge, or past any other obstructions - the farther out, the better. This is ensure the static holes and pitot pickup are in undisturbed air.

3. For planes, it's important that the tube be placed so that it is not directly in the plane's prop-wash, which will result in erroneous readings. The best place to install the tube is on the leading edge of the wing several inches out from the fuselage, as shown in Figure.

4. Connect the sensor to receiver Smart Port.



\*Install FrSky Smart Port Air Speed Sensor ASS-70/ASS-100 on any appropriate surface of the airframe that stays away from water, vibration, or fuel.

### ID Set up:

Each type of FrSky Smart Port enabled sensor has its unique physical ID. The default physical ID for this sensor is 10. The ID number could be changed by FrSky Servo Channel Changer. Please refer to the instruction manual of FrSky Servo Channel Changer for details.

\*All FrSky Smart Port enabled sensors could daisy chain with each other through their Smart Port.

### LED Status

LED Status	Smart Port Connection	Airspeed Provide
Flash quickly	YES	YES
Flash Slowly	NO	NO