

Airspeed Indicator

- 3-inch Airspeed Indicator, Type 5A16
- 3-inch Airspeed Indicator with Setting Mark Internal, Type 5A17
- 3-inch Airspeed Indicator with VMO-Switch, Type 5A26
- 3-inch Airspeed Indicator with VMO-Switch and Setting Mark Internal, Type 5A27



General

The Airspeed Indicators (ASI) measure the speed of the aircraft in knots (KTS), kilometer per hours (km/h) or MPH. A high performance mechanism transmits the pitot pressure to a pointer deflection. The control relays (Type 5A26/5A27 only) for the outside warning system (Vmo) are actuated by optical detection devices. All instruments are offered customer specific (see type designation) and are mounted for easy servicing.

Application

The 3-Inch Airspeed Indicators are installed as primary or standby instruments in civil and military aircraft. Users benefit from a high level of precision and reliability.

Characteristics

Indication

A pointer indicates airspeed against a fixed dial with numerals and graduations.

Internal Setting Mark (5A17 and 5A27 only)

A reference bug, controlled by a knob at the lower left front of the unit, can be set by the pilot for any desired airspeed.

Vmo – Switches (5A26 and 5A27 only)

Each switch is independent and has no mechanical connection to the indicator for conventional speed.

Case

The SATHOM Airspeed Indicators are installed in lightweight aluminum ARINC, and Square or Round plastic cases.

Lighting

Lighting is offered in different voltages and different colors. All instruments are available in NVG-compatible lighting.

Glass

All instruments with lighting are equipped with antireflective coated glass in compliance with MIL-C-14806.

Static Pressure Connector

Static pressure connectors comply with MS 33649.

Electrical Connector

A 3-pin connector (10 pin for 5A26 and 5A27 only) is used for all lighted indicators. The standard connectors meet all the requirements of MIL-E-5400.

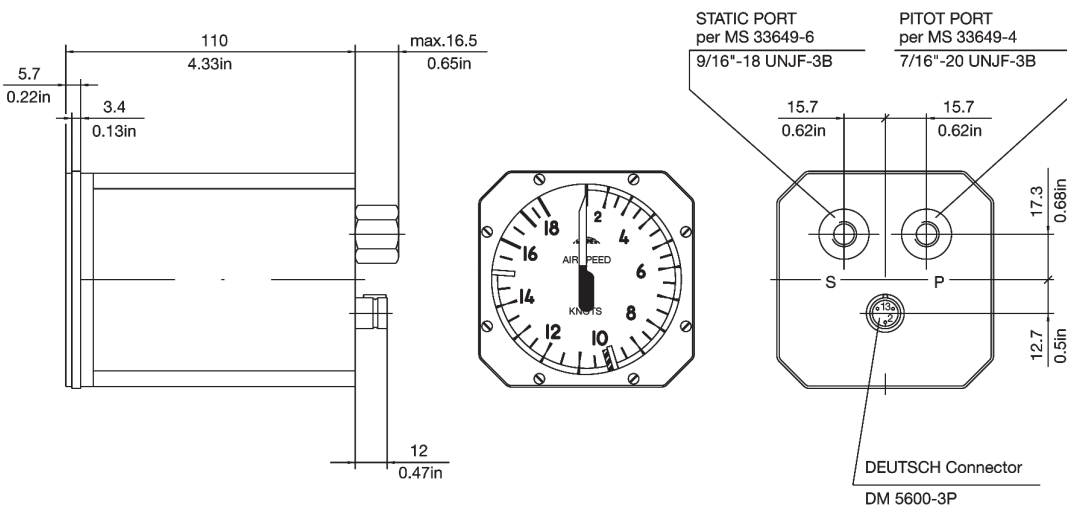
Type Designation

5A16.	Airspeed Indicator (ASI)
5A17.	Airspeed Indicator (ASI) with Setting Mark Internal
5A26.	Airspeed Indicator (ASI) with Vmo-Switch
5A27.	Airspeed Indicator (ASI) with Vmo-Switch and Setting Mark Internal
.10.	Round Plastic Case Black, Bezel with Lip
.20.	Round Metal Case Black, Bezel with Lip
.30.	ARINC Case 408 3ATI Black
.40.	ARINC Case 408 3ATI Grey
.50.	Square Case Black
.60.	Square Case Grey
.70.	Round Plastic Case Black, Bezel without Lip
.80.	Round Metal Case Black, Bezel without Lip
.01.	Dial Mark. are Fluorescent White
.02.	Dial Mark. are Lusterless White
.03.	Dial Mark. are Fluorescent Yellow
.04.	Dial Mark. are Luminescent Green
.05.	Dial Mark. are Day Glow Yellow (Sature)
.18K.	Measuring Range 180KN
.20K.	Measuring Range 200KN
.26K.	Measuring Range 260KN
.30K.	Measuring Range 300KN
.35K.	Measuring Range 350KN
.40K.	Measuring Range 400KN
.45K.	Measuring Range 450KN
.50K.	Measuring Range 500KN
.55K.	Measuring Range 550KN
.60K.	Measuring Range 600KN
.65K.	Measuring Range 650KN
	On Request km/h or MPH
.00.0.	Without Lighting
.05.	Lighting 5V AC/DC
.28.	Lighting 28V AC/DC
.1.	Lighting White Only
.2.	Lighting Red and White
.3.	Lighting Red Only
.4.	Lighting NVIS Green
.XX.	Customer Code

Technical Data

General	
-Airspeed Indicator	Acc. TSO-C2b and DO160
-Case (Bezel)	
ARINC	Acc. ARINC 408 3ATI
Square	Acc. MS 33556
Round	Acc. MS 33638
-Lighting NVIS Green	Nightvision Goggle Compatibility
	Acc. MIL-STD-3009 (MIL-L-85762)
-Temperature	Acc. TSO-C2b
Operating	-30° to +50°C
Non-Derangement	-65° to +70°C
-Pneumatic Connector "S"	9/16"-18UNJF-3B (MS 33649-6)
"P"	7/16"-20UNJF-3B (MS 33649-4)
-Weight in Standard Configuration	Less than 530 gr
-Colors White and Black	Acc. FED-STD-595a
-Glass, Anti-Reflective Coated	Acc. MIL-C-14806A
Options	
-Measuring Ranges	in km/h and MPH
-Temperature	
Operating	-55° to +70°C
Non-Derangement	-60° to +90°C
-Further Pneumatic Connectors	Acc. MS 33649

Drawing



Specifications are subject to change without notice.

SATHOM
Manufacturer of
mechanical aircraft
instruments used
in business, commercial
and military aviation.

SATHOM is a
certified company.

EASA Part 21 G+O
EASA Part 145

SATHOM 07 /18 Material No.:70794161