

Max. All. Airspeed

- 3-inch Maximum Allowable Airspeed Indicators
Types 5C16/5C17/5C26/5C27/5C36/5C37/5C46/5C47



General

The 3 inch Maximum Allowable Airspeed Indicators (MAAI) are pneumatically operated instruments deriving indicated airspeed and maximum allowable operational speed (Vmo/Mmo) from the pitot-static sources.

The control relays for the outside warning system (Vmo and Mmo) 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 MAAI 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. A second pointer shows maximum operational speed. The movement is in accordance with customer specification.

Internal Setting Mark

A ref bug (5C157 5C27, 5C37, 5C47 only), controlled by a knob at the lower left front of the unit, can be set by the pilot for any desired airspeed.

Vmo- and Mmo-Switches

Each switch is independent and has no mechanical connection with the indicator for conventional speed and maximum operation speed-pointer. 1 to 3 Vmo-switches operating at pre-set indicated airspeed values and/or 1 Mmo-switch operating at a pre-set maximum allowable speed value.

Case

The SATHOM Maximum Allowable Airspeed Indicators are installed in lightweight aluminium ARINC and Square 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 glasses in compliance with MIL-C-14806.

Pneumatic Connector

Pitot- and Static-connectors comply with MS 33649.

Electrical Connector

3-pin connector for all 5C16 and 5C17 indicators with lighting, 10-pin connector for 5C26, 5C27, 5C36, 5C37, 5C46 and 5C47 indicators. The standard connectors meet all the requirements of MIL-E-5400.

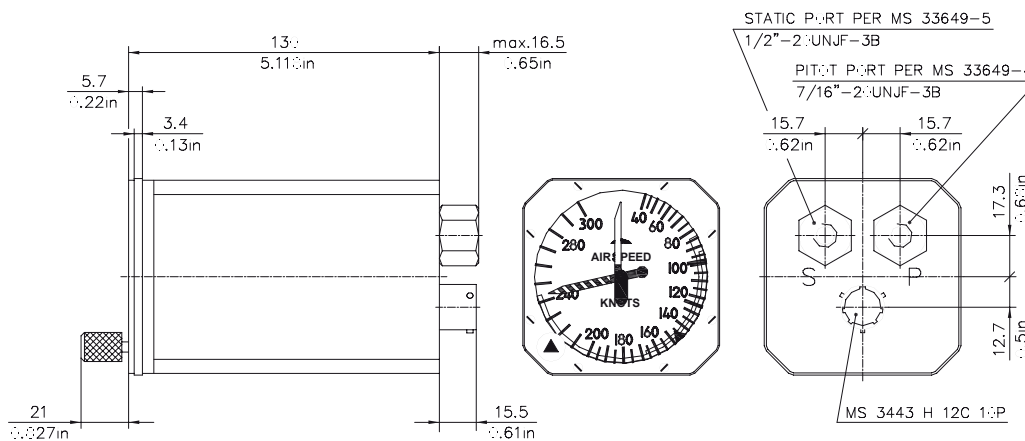
Type Designation

5C.	Max. All. Airspeed Indicator (MAAI)
.16.	MAAI
.17.	MAAI with Setting Mark internal
.26.	MAAI with Mmo-Switch
.27.	MAAI with Mmo-Switch and Setting Mark internal
.36.	MAAI with Vmo-Switch
.37.	MAAI with Vmo-Switch and Setting Mark internal
.46.	MAAI with Mmo and Vmo-Switch
.47.	MAAI with Mmo and Vmo-Switch and Setting Mark internal
.20.	Round Case black, Bezel with lip
.30.	ARINC Case 408 3ATI black
.40.	ARINC Case 408 3ATI grey
.50.	Square Case black MS 33556
.60.	Square Case grey MS 33556
.01.	Dial Markings are fluorescent white
.02.	Dial Markings are lusterless white
.03.	Dial Markings are fluorescent yellow
.04.	Dial Markings are luminescent green
.05.	Dial Markings are day glow yellow
.26K.	Measuring Range 30...260 KN
.30K.	Measuring Range 30...300 KN
.35K.	Measuring Range 40...350 KN
.40K.	Measuring Range 60...400 KN
.45K.	Measuring Range 50...450 km/h
.65K.	Measuring Range 60...650 km/h Measuring Range in km/h on req.
.00.0.	Without Lighting
.05.	Lighting 5V AC/DC
.28.	Lighting 28V AC/DC
.1.	Lighting white only MIL-L-27160
.2.	Lighting red and white
.3.	Lighting red only MIL-L-25467
.4.	Lighting NVIS green MIL-L-85762
.XX	Customer Code

Technical Data

General	
-Max. All. Airspeed Indicator	acc. to TSO-C46a, scale range in knots
-Environmental Conditions	acc. to TSO-C46a
-Temperature Operating	-30° C to +50° C
-Non-Derangement	-65° C to +70° C
-Indication	a pointer indicates airspeed, a second pointer shows maximum allowable operational speed, the movement of the max.pointer is acc. to customer specification
-Case (Bezel)	ARINC 408 3ATI Square acc. to MS 33556
-Pneumatic Connector "S"	1/2"-20UNJF-3B
"P"	7/16"-20UNJF-3B
-Weight in Standard Configuration	less than 620 grams
-Glass Antireflective Coated	acc. to MIL-C-14806A
-All Colours	acc. to FED-STD-595a
-Measuring Range	see Type Designation
-Lighting 5 or 28 V AC/DC	in colour white
Options	
-Scale Range	in km/h
-Environmental Conditions	acc. to RTCA DO-160
-Temperature Operating	-55° C to +70° C
-Lighting	red only or red and white Nightvision Goggle Compatibility (MIL-L-85762)
-Further Pneumatic Connectors	acc. to MS 33649

Drawing



Specifications are subject to change without notice.

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

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EASA Part 21 G+O
EASA Part 145

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