

# MACH Airspeed

- 2-inch MACH Airspeed Indicator  
Type 5C55



## General

SATHOM 2 inch MACH Airspeed Indicators (MAI) are pneumatically operated instruments deriving indicated airspeed and MACH information from the pitot-static sources.

The MAI are totally self contained, requiring no electrical power to drive the mechanism. The combined displacements of the airspeed pointer and the MACH-disc determine the MACH number, which is indicated simultaneously with airspeed by the airspeed pointer.

All instruments are offered customer-specific (see type designation) and are mounted for easy servicing.

### Application

The 2 inch MAI 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 rotatable disc indicates MACH.

### Case

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

### Lighting

Lighting is offered in different voltages and different colours. 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 are according to MS 33649 or customized.

### Electrical connector

3-pin connector or customized for all lighted indicators. The standard connectors meet all the requirements of MIL-E-5400.

## Type Designation

5C55	MACH Airspeed Indicator (MAI)
.10.	Round case grey, bezel with lip
.20.	Round case black, bezel with lip
.30.	ARINC case 408 2ATI black
.40.	ARINC case 408 2ATI grey
.50.	Square case black MS 27560
.60.	Square case grey MS 27560
.01.	Dial Markings are fluorescent white
.02.	Dial Markings are lusterless white
.03.	Dial Markings are fluorescent yellow
.04.	Dial Markings are luminescent green (Tritium)
.05.	Dial Markings are day glow yellow (Saturn)
.35K.	Measuring Range 40 ... 350 KN / .3 ... 1.0 MACH
.40K.	Measuring Range 60 ... 400 KN / .3 ... 1.0 MACH
.45K.	Measuring Range 50 ... 450 KN / .3 ... 1.0 MACH
.50K.	Measuring Range 50 ... 500 KN / .3 ... 1.0 MACH
.65K.	Measuring Range 60 ... 650 KN / .3 ... 1.8 MACH
.85K.	Measuring Range 80 ... 850 KN / .4 ... 2.5 MACH
Measuring ranges in km/h on request	
.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-STD-3009 (MIL-L-85762)
.XX	Customer Code

## Technical Data

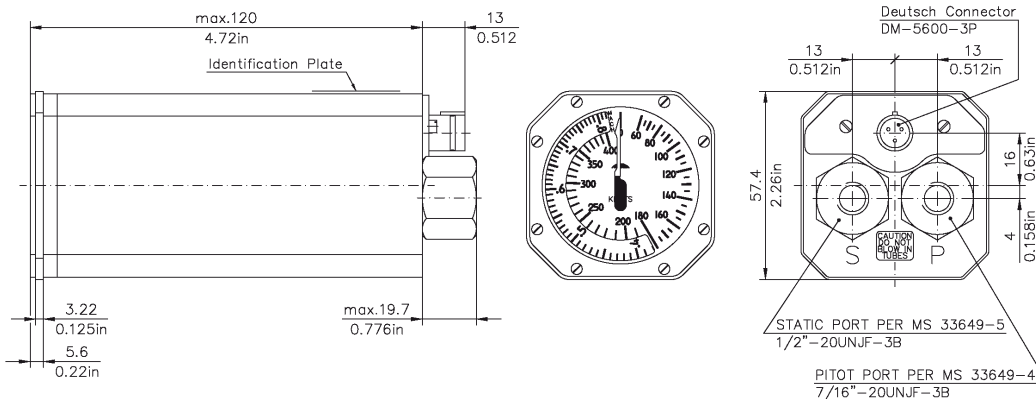
<b>General</b>	
-MAI	acc. to TSO-C46a, scale range in knots and MACH
-Environmental Conditions	acc. to TSO-C46a
Temperature Operating	-30 °C to +50 °C
Non-Derangement	-65 °C to +70 °C
-Indication	a pointer indicates airspeed against a fixed dial and a rotatable disc indicates MACH see type designation
-Measuring Range	
-Case (Bezel)	
ARINC	acc. to ARINC 408 2ATI
Square	acc. to MS 27560
Round	acc. to MS 33638
-Lighting	5 or 28V AC/DC in colour white
-Weight in Standard Configuration	less than 400 gr
-Colors	acc. to FED-STD-595a
-Glass, Anti-Reflective Coated	acc. to MIL-C-14806A
-Pneumatical Connector	Static 1/2"-20 UNJF-3B Pitot 7/16"-20 UNJF-3B DEUTSCH DM 5600-3P
-Electrical Connector	
<b>Options</b>	
-Scale range in km/h and MACH	
-Environmental Conditions	acc. to RTCA/DO-160
Temperature Operating	up to -55 °C to +70 °C
-Lighting	red only or red and white Nightvision google compatibility MIL-STD-3009 (MIL-L-85762)
-Further Pneumatic Connectors	acc. to MS 33649
-Further Electrical Connectors	acc. to MIL-E-5400

Also available on request:  
Maximum Allowable Airspeed Indicator (MAAI) type 5C56 in different ranges.



Maximum Allowable Airspeed Indicator

## Drawing



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.:70794162