



MD11-3



B-5



B-5 Probe / MD11 Gauge Carburetor Temperature Gauge

Manufactured by Mid-Continent Instruments and Avionics

THE B-5 PROBE IS THE ONLY FAA-APPROVED STC'D INTERNAL CARBURETOR TEMPERATURE SENSING DEVICE.

THE PRIMARY CAUSE OF ENGINE FAILURE IN LIGHT AIRCRAFT IS CARBURETOR ICING AND SPARK PLUG FOULING — DON'T GUESS WHEN IT COMES TO YOUR AIRCRAFT.

Mid-Continent's B-5 Temperature Probe and MD11 Gauge accurately measure internal carburetor temperatures, giving the pilot precise engine information during all phases of flight. Use of this system can reduce the risk of carburetor icing, decrease spark plug fouling, extend engine life, and increase range and power to help maximize fuel economy.

The B-5 Probe is the only FAA-approved STC'd internal carburetor temperature sensing device. Other probes which utilize a simple indicator light cannot offer precise temperature information. They disrupt fuel flow or don't fit inside the carburetor to sense air temperature at the throttle valve.

- Detects potential carburetor icing
- Reduces spark plug fouling
- Extends engine life
- Helps attain maximum fuel economy, range and power
- Probe fits pre-tapped hole in Marvel-Schebler and Bendix carburetors
- Quality connector included
- Supplemental Type Certification FAA PMA approved
- Designed and built in Wichita, Kansas, USA
- One-year limited warranty

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MD11 GAUGE SPECIFICATIONS

Power Input	MD11-3 14 VDC, 90 mA MD11-4 28 VDC, 80 mA
Dimensions	2.4 x 2.5 x 2.7 inches
Weight	.3 lbs
Operating Temperature	-40°C to +87°C (-40°F to +190°F)
Indicating Temperature	-30°C to +30°C (-22°F to +86°F)
Altitude	-1,000 to +40,000 ft
Humidity	0 to 90% at 25°C
Vibration	.02 in. dbl. ampl., 1.5g @ 5 to 50 Hz
Certification	FAA PMA
Mounting	Front or rear panel
Case Material	Flame-retardant polycarbonate
Connector	3-pin AN type male (MS3102A-14S-07P)
Mating Connector	3-pin AN type female (MS3106A14S-7S with MS3057-6A)

Designed for use with most Marvel-Schebler and Bendix float-type carburetors, the B-5 is the only probe that installs at the throttle valve – the critical icing point in fuel induction systems. The optimum internal temperature for light aircraft carburetors is 5°C and spark plug manufacturers state that fuel is properly volatilized at 5°C to prevent plug fouling. Used with the MD11 Gauge, the B-5 Probe allows pilots to monitor and control carburetor heating to within 1°C for maximum safety and engine efficiency.

B-5 PROBE SPECIFICATIONS

Dimensions	1-inch length x 3/8-inch hex
Weight	0.2 oz
Temperature	-30°C to +30°C (-22°F to +86°F)
Altitude	-1,000 to +50,000 ft
Humidity	0 to 90% at 25°C
Vibration	.02 in. dbl. ampl., 3g @ 5 to 55 Hz
Certification	FAA PMA and STC approved
Mounting	Carburetor; 1/4 - 28 UNF threaded
Case Material	Brass
Connector	Burndy knife type

