

3 FUNCTION INDICATOR



OUTSIDE AIR TEMPERATURE (°F)
OUTSIDE AIR TEMPERATURE (°C)
AIRCRAFT VOLTAGE With ALARM

OPERATION

A single push-button on Model 303 causes the digital display in automatic rotation to show its three functions of: voltage, outside air temperature (Fahrenheit), outside air temperature (Centigrade).

When the radio master switch of the aircraft is first turned on, The Model 303 always reads out the aircraft voltage to the nearest tenth of a volt. A code letter E indicates it is in the voltage function (EMF). To display outside air temperature in degrees Fahrenheit, the button is pressed, and the letter F appears to indicate this mode. The next press of the button displays C for outside temperature in degrees Centigrade.

The indicator remains in the mode selected as long as aircraft power is on. Any mode can be selected as fast as one can depress the switch. The mode selection will always sequence in the same manner (F C E) as indicated on the instruments face.

The digital outside temperature function replaces one of the most difficult-to-read instruments in the cockpit. The pilot may relate to outside air temp. in degrees Fahrenheit, then instantly change the display to degrees Centigrade for aircraft manual input, etc.

The voltage function of the indicator allows the pilot to monitor his electrical system precisely. By monitoring the voltage he can anticipate a low voltage condition, unlike a warning light which tells only that this condition has already occurred. Also, the pilot can know with more accuracy the amount of capacity remaining in the battery.

The voltage at which a battery is being charged is also of greatest importance, since over-charging can lead to excessive water loss and battery failure. In brief, the voltage function reveals valuable information which helps the pilot obtain more reliable and better service from the electrical system.





Outside Air Temperature (°F)



Outside Air Temperature (°C)

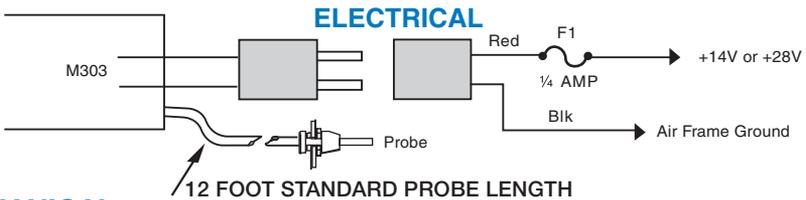


Aircraft Voltage

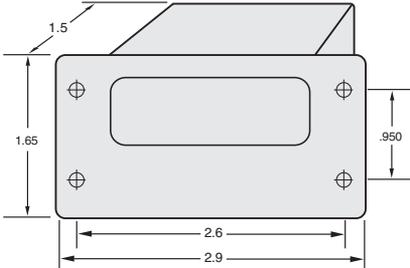
INSTALLATION

The 303 is available in two mounting styles: 303-1 as a small panel mount, and 303-2 as a standard 2-1/4 round mount.

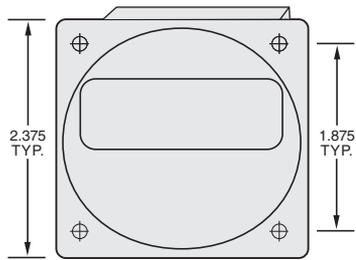
The instrument will operate on 14 or 28 volts and requires a maximum of .1 amps. The temperature sensor mounting should be in a place that would be free of exhaust gases or cowl flaps airflow. An ideal place is 2 feet out from the wing root on the bottom of the wing. The stainless steel probe is supplied with a 12ft shielded cable and all mounting hardware. Leads may be shortened or extended without affecting calibration.



MECHANICAL

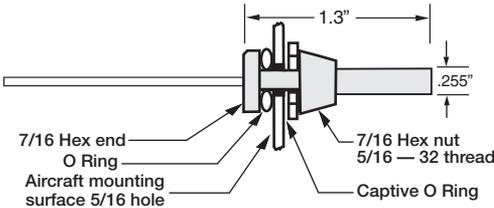


M-303-1 Panel Mount



M-303-2 Clock Mount

12 FOOT STANDARD DIGITAL PROBE



SPECIFICATIONS

Temperature range: - 40°C to +100°C

- 40°F to +212°F

Operating Temp.: - 25°C to +60°C

Voltage range 10V to 32V ± .2 volts Typ.

LED with automatic dimming

Input voltage: 14 or 28 volts

Input current: 100 M.A. Max

Weight: 5 oz.

Warranty: 1 year

VOLTAGE ALARM

Unit default alarm set to flash 11v or below

R_ARM & R_SELECT located on front board

Alarm off/1.5 ohm resistor on R_ARM

Alarm 20v or less/1.5 ohm resistor on R_SELECT

