

View Online at <https://aerobasegroup.com/nsn/6340-01-643-7756>

Ac Voltage Rating:

24.0 volts

Usage Design:

Field and aircraft

Design Type:

Nontripod mounting

Unpackaged Unit Weight:

0.7 pounds

Media Detected:

Ice and water

Product Name:

Freezing-rain sensor

Special Features:

Output format: rs-422 output operates at 9600 bps; input voltage: 22 to 29.5 vdc; sensing mode: 5 w max; deicing mode: 27 w max; temperature range: operating: -55 degree to 77 degree celcius; storage: -65 degree to 90 degree celcius; random vibration: 7.9 gm (do-160c category e) ; base diameter: 2.88 in; base height: 3.81 in; plate size: 2.9x2.9x0.085 in; operating modes: sensing: operating with no ice or with probe ice thicknes below the set point.Deicing: operating with probe ice thickness exceeding the set point.

Functional Description:

Determine the presence of icing conditions. Its main component is a nickel allow rod that has a natural resonant frequency of 40khz. As ice collects on the rod, the added mass cause the resonant frequency to decrease. When the frequency decreases to 130h (or 0.02-in layer of ice) an internal heater automatically defrosts the sensor.

Shelf Life:

N/a

Unit Of Measure:

--

Demilitarization:

No

Fiig:

T394-a