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Operating Temperature Range:

-20.0/+60.0 degrees celsius

Measurement Type:

Digital

Measurement Range:

+10.0/+100.0 percent relative humidity

Scale Accuracy Rating:

Humidity accuracy +/- 2 percent rh, temp accuracy +/- 0.4 degrees f

Special Features:

System consists of a humidity/temp indicator w/digital display and humidity/temp probe; probe connected to display by wire; dew point temp 0 degrees c to 40 degrees c below ambient temp; outputs: dewpoint temp 0 to 1 volt for -40 to 60 degrees c, ambient temp 0 to 1 volt for -40 to 60 degrees c, relative humidity type 0 to 1 volt for 0 to 100 percent rh; measurement of air dewpoint achieved by opto-electronic detection of dew formed on an electrically cooled, solid gold mirror, the temp of mirror is continually monitored and when dew forms the temp is stored in memory; probe houses the dew forming mirror and optics, also carries another transducer for measuring ambient temp; operates and displays continuously while cycling through dewpoint determination every 1/2 to 2 minutes; item will be used to maintain accuracy of the following systems-t.O. 33k6-4-2024-1, p/n 31061222-001, t.O. 33k5-4-84-1 p/n's ct428-7, rh200, htab176

Functional Description:

The protimeter dewpoint meter uses analog and digital electronics to simplify accurate and stable hygrometric measurement; direct measurement of dewpoint temperature

Reference Data And Literature:

T.O. 33k1-1-100

Relationship To Similar Equipment:

Replaces the air force's current temp and humidity transfer standards used in pmel, p/n sa-760-a nsn 6625-01-144-1855 digital readout and p/n h5-3552-b (nsl) humidity probe

Shelf Life:

N/a

Unit Of Measure:

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Demilitarization:

No

Fiig:

A27600