DESCRIPTION

A dimmer control knob is provided on the right side of the front panel which also activates the lamp test. The connecting plug is mounted on the rear plate and mates with a connector Type PT06B-14-19S.

APPLICATION

The 83200 DME indicator is a precision indicator with a digital fiber optic display that processes the digital data signals supplied by a DME Receiver-Transmitter to provide the pilot with a digital display of distance from a preselected ground station. The distance information is displayed in Nautical Miles. This indicator is housed in standard non-pressurized case. The instrument contains two printed circuit boards: the DME decoder, the power supply and a four digit fiber-optic display.

EQUIPMENT CONFIGURATION

Indicator P/N 83200 is available with or without NVG features. The four digit DME includes the ARINC 582 decoder, the readout display drive, and a dimmer control. The power supply includes a power converter +28 VDC-300 mA., per MIL-STD 704. The readout is a four digit fiber-optic display, high intensity sun readable; a decimal point is provided to give 1/10 of a mile readings up to 399.9 nautical miles.

An invalid reading is shown as 4 dashes when a valid signal is not received from the R/T or in the event of a malfunction within the Indicator data processing circuitry.
EQUIPMENT SPECIFICATIONS

DME P/N 83200

PHYSICAL...........................................1.5X3ATI per ARINC 408A
HEIGHT............................................. 1.65 inch
WIDTH.............................................. 3.37 inch
LENGTH............................................. 5 ¾ max. from rear edge of mounting flange to rear connector.

WEIGHT............................................. 13 OZ Typical

MOUNTING.......................................... Front

ENVIRONMENTAL

TEMPERATURE RANGE
OPERATING.......................... -20°C to +55°C(-4° to + 131°F)
SHORT TIME OPERATING... +70°C (+ 158°F )
STORAGE................................. +55°C to +85°C(-67° to +185°F)

ALTITUDE SERVICE CEILING............ 19 000 FEET

COOLING........................................... Convection
RELATIVE HUMIDITY.................... 95% at 50°C (122° F)

VIBRATION....................................... 0.08 inch with 2.0 g max,
5 to 22 Hz
2.0 g max., 22 to 37 Hz
0.75 g max. , 37 to 70 Hz
0.5 g max., 70 to 500 Hz
0.25 g max., 500 to 2000 Hz

ELECTRICAL

POWER REQUIREMENTS.......... +28 VDC, 300 mA Nominal
DISPLAY RANGE......................... 0.0 to 399.9 nm in 0.1 nm Increments.

INPUT SIGNAL REQUIREMENTS........ ARINC Characteristics 582
Basic Serial Data
Digital signal supplied
on one pair of shielded wires.