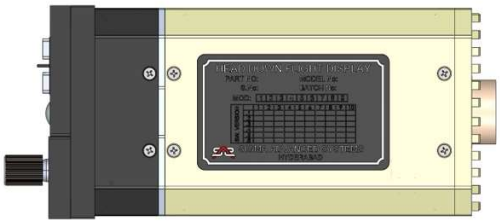
HDFD-100 Head Down Flight Display

Ver: A



Sigma-make Head Down Flight Display (HDFD) is a fully indigenous, high-performance, “Made-in-India" product, meant for use as a Primary Display Indicator (PDI). Engineered as a standard 3ATI form factor, with 2.4” x 2.4” front-panel display, it can be factory-configured used on multiple aircraft platforms.

Key Features

Parameters

- Digital Corrected Barometric Altitude Display
- Pitch Ladder
- Aircraft Symbol
- Barometric Setting
- Heading Display Barometric
- Digital Airspeed Display
- Roll Scale & Pointer
- Slip Indication
- Error Indications & Built-in Tests
- NAV Display Area – Bearing and Range

Communication Interface

- Four (4) ARINC-429 Receivers
- Two (2) ARINC-429 Transmitter
- Two (2) Serial Port
- One (1) ARNIC-825 (optional)
- One (1) MIL-STD-1553 RT (optional)

Sigma Advanced Systems
24/A, Hardware Park, Srisailam Highway Road,
Near International Airport, Hyderabad – 5000 05, Telangana, INDIA.
https://www.sigmaadvsys.com

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Input & Output

- Eleven (11) Discrete Inputs
- Three (3) Discrete Outputs
- Three (3) Analog Inputs

Front Panel Bezel, Indicators & Controls

- Two Push Buttons
- Light Sensor
- One Encoder + Push Button

Standards

- Power Supply Requirements as per MIL-STD-704D
- EMI/EMC test requirements as per MIL-STD-461/462
- Environmental Condition & Test Procedures as per MIL-STD-810F
- Software Considerations in Airborne Systems as per RTCA-DO-178C
- Reflective Coating as per MIL-C-14806A

Display

- Active area: 2.4” x 2.4”
- Resolution: 480 x 480
- Panel Type: TFT Color LCD
- LED backlight
- 60Hz Refresh Rate
- NVG: Dual Mode (DAY/NIGHT), NVG Included as per MIL-L-85762A Class B

Mechanical & Others

- Material: Aluminum Alloy 6061 T6
- Surface Protection:
  - ALOCHROME as per MIL-DTL5541-F
  - ANODIZING as per MIL-A-8625F
- Dimensions: 83 x 83 x 168 mm
- MS389999 series: 37-Pin connector
- Temperature:
  - Operating Temperature: -40°C to +70° C
  - Storage Temperature: -40°C to +90° C
- Cooling: Passive (No forced Convection)

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