

# **Integrated Standby Instrument**

- GE Aerospace has a long history of introducing the very latest display technology into the Aerospace environment, developing high integrity products and systems that are essential in safety-critical aircraft applications for new or retrofit civil and military platforms. Our modular designs enable maximum reuse with the latest design techniques to ensure delivery of world-class, affordable through-life products.
- Our 4th and latest generation Integrated Standby Instrument is now available, with reduced weight and power consumption. The unit is a standard 3x3 inch (3ATI) format, with a flexible range of custom options.
- The GE Aerospace standby product family is designed, qualified to deliver high performance and accuracy whilst operating within extreme environments. High precision integrated sensors detect attitude rates and accelerations to determine accurate attitude performance in both static and dynamic conditions across the operational range. Similarly, integrated pitot and static sensors generate airspeed and altitude accuracies that exceed the performance required by the ETSOs specification across the full operating range.



- High resolution AMLCD NVIS compatible display combined with patented software rendering techniques provide a clear readable image across the whole viewing angle and dimming range. The Integrated Standby Instrument is a robust, compact, lightweight, and low power solution that provides an extremely reliable solution requiring no routine maintenance. Developed and certified to DAL B enables simple integration and certification into new and existing applications.
- The standby instrument is customisable via an embedded personalisation software module which enables a single part number to satisfy multiple aircraft platforms across the fleet.

## Key Benefits:

- ✓ High reliability and performance
- ✓ ITAR free
- ✓ EASA certified (9 ETSOs)
- ✓ Repair facilities in the UK and US
- √ 5-in-1 display
- ✓ Customisable
- ✓ Obsolescence managed

# **Proven Applications:**

- → Fast jet
- → Rotorcraft
- → Civil Air Transport
- → Military Air Transport
- → Business Jet
- → Military Trainer

#### - T A K E A W A Y S



Lightweight

3.0 lbs



Low Power (exc. Display heater) 11.2 w



High reliability specifications (MTBF)

>25K hrs
(Commercial)



**NVG** compatible

NVIS-B

# **Features**

### Weight: 3.0 lb (1.36Kg) Dimensions: 3" x 3" x 9" (3ATI) Installation Unit power: 11.2W @ 28VDC, additional heater power, 25W @32.2VDC. (if required) Cooling: Passively cooled Bezel: Clamp or Flange mounted configurations Configurable: Customisable internal personalisation table to define unit functionality Display: High resolution anti-aliased AMLCD display 2.4" x 2.4" (61mm x 61mm) Backlight range: < 0.05 to > 150fL, 3000:1 dimming ratio HMI controls, illuminated rotary knob and buttons Wide or narrow display viewing angle options Slip skid **Display** NVIS compatibility: NVIS B, class 1 1013- 29.92 Horizon Line 5-in-1 display 23260 Airspeed ¥ 4050 330 340 350 Pitch Ladd Aircraft Symbo Attitude range, ±180° Roll, ±90° Pitch: ±450 °/sec in Pitch, Roll, and Yaw rate ±18g X, Y and Z acceleration Sensors Airspeed range, 0 to 490 kts (subsonic) 910 kts (supersonic), Altitude -2000 to +59000 ft: Total pressure, 0.5 bar differential (subsonic), 2.0 bar differential (supersonic) Static pressure, 1.0 bar absolute ARINC 429, 4 receive channels, 2 transmit channels Full Duplex RS-422 Multiple Discrete inputs (configurable) **Electrical Interfaces** Multiple Discrete outputs (optional) Bezel Lighting bus input (optional) MIL-STD-1553B (optional) IEEE 1394 (Firewire) (optional) DO160G MIL-STD-810G Qualification MIL-STD-704 **DEF-STAN 00-35** ETSOs: C2d, C4c, C8e, C10b, C46a, C95a, C106A1, C113 and C3d (incomplete system) Certification Safety: DO254 and DO178B DAL B Reliabilty: > 25,000 Flight Hours MTBF (commerical)

## **Expandable functionality**



Radio Control







Engine Instrument Display

Reversionary Navigation

Traffic Advisory System

© 2023 GE Aerospace - All rights reserved

GE Aerospace reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

Contact your GE Aerospace representative for the most current information. The GE Aerospace wordmark, and the GE Monogram are trademarks of GE Aerospace.

Bishops Cleeve, Cheltenham, Gloucestershire, GL52 8SF, United Kingdom +44 1242 673333

www.geaerospace.com