

# ENGINE INDICATION AND CREW ALERTING SYSTEM

## EIS-800D



### KEY BENEFITS

- ✓ IMPROVES RELIABILITY THROUGH ELIMINATION OF MECHANICAL ENGINE GAUGES
- ✓ SIMPLIFIES FLIGHT DECK THROUGH FEWER STAND-ALONE INSTRUMENTS
- ✓ REDUCES PILOT WORKLOAD THROUGH SYNOPTIC DIAGRAM
- ✓ LOWERS MAINTENANCE COSTS THROUGH SIMPLE MONITORING OF AIRCRAFT SYSTEMS



RS 485

RS 232

ARINC 429



IPS



The Engine Instrument System Display is perfect low power, sun-light readable replacement for traditional mechanical instruments with exceptional reliability. Modular, solid state construction makes it readily adaptable to a wide range of different I/O connections. Large non-volatile memory capacity with easy direct downloading simplifies the transfer of engine performance information for the maintenance records. A separate USB test port can be used to easily amend scales, parameters or other features on the display to meet changing requirements. The display is based on high-performance ARM processor and FPGA fabric for input conversions.

Display:	8.0" diag. 800 x 480 pixels, color, sunlight readable WVGA IPS TFT with adjustable backlighting
Size:	xxx x xxx x xxx
Weight:	xxx
Interfaces:	8 discrete analog/digital inputs 2 discrete outputs Audio output for annunciation 8x ARINC 429 input channels 3x RS 232 2x RS 485 1x CAN bus USB WiFi through USB

Power:	8-36 VDC, 18 Watts maximum Dual power supply
Environmental:	Pressure range: -1,400 ft. to 30,000 ft. Operating temperature range: -30°C to +65°C Humidity: 95% non-condensing
Certification:	Designed to be compliant to DO-160, DO-178C, DO-254 standards for installation in experimental aircrafts. This product holds no TSO certification.

## AVIATION TECHNOLOGIES



- ELECTRONICS  
DESIGN AND  
MANUFACTURE
- OVERHAULING
- SERVICING
- REBUILDING

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ELECTRONICS  
DESIGN AND  
MANUFACTURE

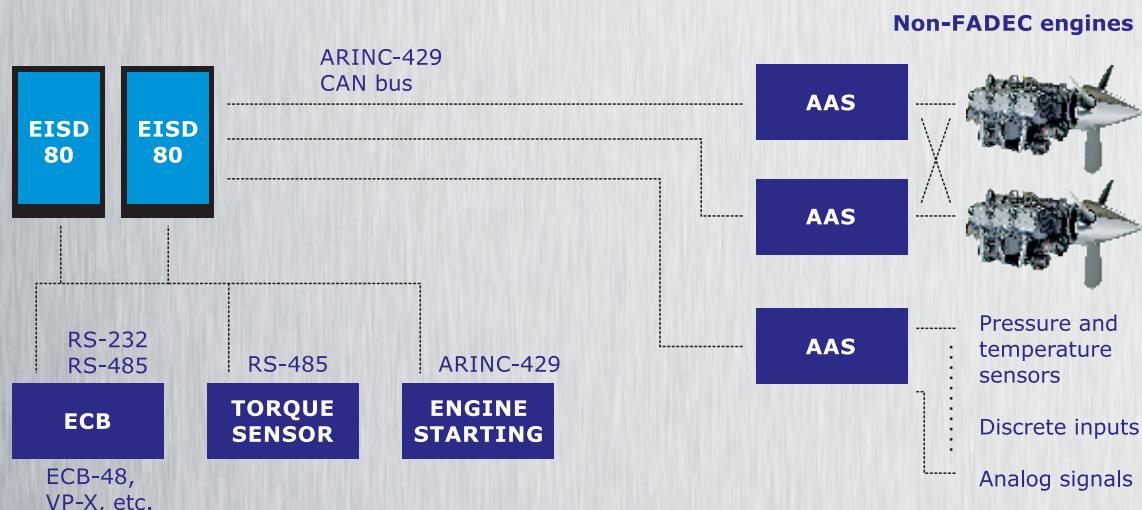
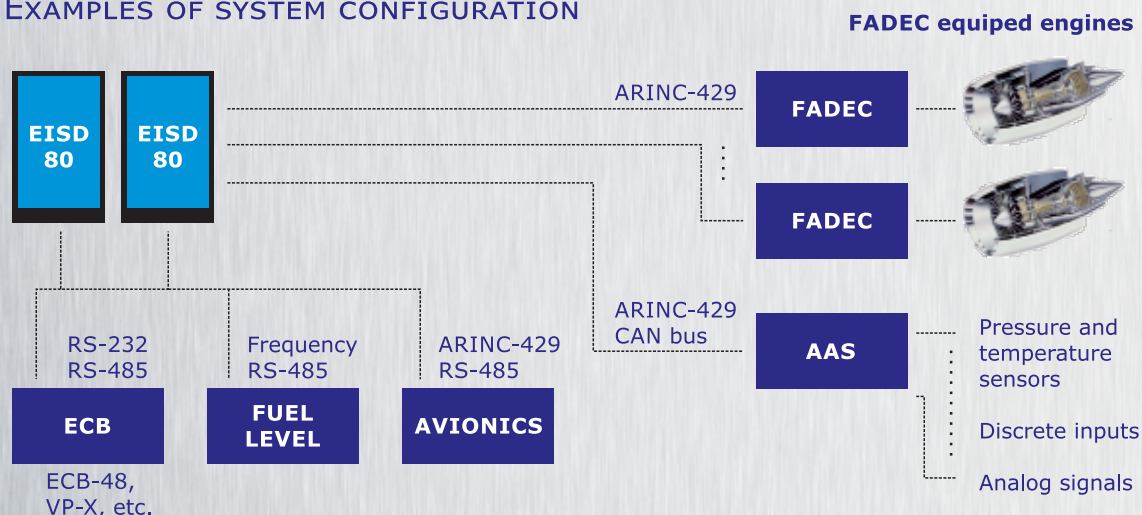
OVERHAULING

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### EXAMPLES OF SYSTEM CONFIGURATION



#### Discrete inputs:

7 fully configurable inputs with adjustable thresholds on high and low levels. All inputs have possibility to turn on pull-up or pull-down or work as floating input or as voltage measurement in the range of 0-36 VDC. Each input can be tied to a soft key or special function or work as annunciator trigger/clear.

2 hi-rel hi-level inputs for annunciators trigger

#### Discrete outputs:

2 discrete outputs, active low. Each providing 2 A DC load capability. Software configurable to output the state or combination of states of annunciators.

#### Audio output:

Differential isolated audio channel with 600 Ohm impedance for voice annunciators. Messages can be downloaded by user or the default ones can be used.

#### ARINC-429 inputs:

8 independent ARINC-429 input channels, providing data collection from FADEC's, Analog Acquisition modules and all variety of devices that provides this interface. Apart from using the standard database for labels and messages, user labels and message formats can be entered to provide the capture of data from custom modules connected to EICAS.

#### RS-232 and RS-485 channels:

2 of RS-485 and 3 of RS-232 channels provide full and half duplex data communication with different devices installed on the aircraft. This includes Electronic Circuit Breakers, remote radios, transceivers and digital sensors. We provide a broad range of installed protocols and integration of new devices can be made on request.

#### CAN bus:

Internal bus for communication of devices made by AV-Tech. Can be used for other devices on request.

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