

SOLID STATE QUICK ACCESS RECORDER



SSQAR 200-E20-XXX Series

Confidence and efficiency of flight data analysis highly depend on access and reliability of in-flight recorded data. This latest technology, Quick Access Recorder, solves the practical problems of retrieving data for true operational value.



Flight Data Vision Quick Access Recorders are designed using the latest storage technologies and electronic concepts to provide a highly reliable recorder that is simple to install and operate. The 200-E20-XXX is designed with flexibility and expandability in mind.

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Key Features of the SSQAR

- ▶ 750 gr (1.71lb)
- ▶ 4 watts maximum at Power Up
- ▶ Up to 4-GB removable solid-state memory
- ▶ Simple install. No forced cooling required
- ▶ 1 x Opto-Isolated ARINC 573/717 Input
- ▶ 4 x Opto-Isolated ARINC 429 Inputs
- ▶ 4 x Discrete Inputs
- ▶ Uploadable customer's flight data parameter acquisition and sampling program.
- ▶ Precise time stamp recordings
- ▶ Tested to DO 160 requirements

Installation :

The SSQAR has been designed to simplify installation and location onboard the aircraft. The unit can be rigidly mounted in any orientation to a tray using the four DZEUS fasteners. The unit comes with a standard MIL-C 38999 Series II 37 Pin rear connector.

Recording :

The units feature high-speed recording functions that are able to write data to a removable solid-state memory module from multiple monitored interfaces. Memory modules are available in many sizes up to 4 GBytes.

Read Out :

Using PCMCIA concept eliminates the need for a specialized and expensive download unit. Reading out recorded flight data parameters utilizes the actual PC Card drive of the computer running standard Windows© operating systems.

Configuration :

The SSQAR is easily configurable and modular. Customer can set up its flight data acquisition program on its computer and generate a configuration file. This configuration file is then uploaded to the SSQAR using a PCMCIA.

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OUTLINE SPECIFICATION

| | |
|-----------------------------------|--|
| Dimensions | Overall length: 163mm Overall width: 146mm Overall height: 38mm |
| Weight | 750 gr (1.71lb) |
| Case Construction | Aluminium housing assembly |
| Power Supply Power Consumption | 28 VDC Typical 3 Watts (4 Watts on power-up) |
| Main Connector | MIL-C 38999 Series II 37 Pin |
| Cooling | Free air convection. No forced cooling required |
| Aircraft Interfaces | <p>1 x ARINC 573/717 Bi-Phase or Bi-Polar Opto-Isolated input line – Data Stream Auto-Detecting up – up to 2048 wps</p> <p>4 x ARINC 429 Opto-Isolated Input lines, High or Low speed – Label Filtering – Label Sampling (1, 2, 4, 8Hz or all)</p> <p>4 x Discrete Input lines (Shunt)</p> <p>1 RS232 (Configuration, advanced monitoring & troubleshooting)</p> |
| User Interface | 1 Memory card slot for PCMCIA |
| Mounting Installation | Four DZEUS fasteners |
| Storage Media | PCMCIA up to 4GB |
| Recording Capacity | > 8000 flight hours at 64wps |
| Temperature | Operating: -40°C to +70°C Storage: -55°C to +80°C |
| Environmental Qualification | RTCA DO160D |
| Software Qualification | RTCA DO178 level D |
| MTBF | 10000 hours |
| Readout | H/W : Standard PCMCIA Card drive S/W : PGS 100-0X00 software or 3rd party FDM software |
| Configuration | Uploadable customer's flight data acquisition program |