

ETMR ENGINE TREND MONITORING RECORDER

/// FEATURES & BENEFITS

POC'S ETMR PROVIDES THE FOLLOWING BENEFITS AS AN ENGINE MONITOR FOR GENERAL AVIATION:

- Establish critical engine condition and trend monitoring for enhanced performance
- Eliminate errors in data recording and analysis
- Improve incident or event analysis
- Improve maintenance scheduling and logistic support
- Reduce parts replacement
- Reduce maintenance cost and system damage through early diagnosis
- Troubleshoot problems by isolating abnormal performance



AUTOMATED ENGINE TREND RECORDER

- ETMR approved (and in use) for FAR Part 135 (Air Taxi) regulations
- Locate engine faults before they occur
- Turbine data export to P&W, Trend Group and others
- Increase engine Time Between Overhaul (TBO) and Hot Section Inspections (HSI)

AFFORDABLE ENGINE DATA RECORDER FOR GENERAL AVIATION

- Rugged solution for engine operational monitoring and recording
- Comprehensive recorder (75-150+ parameters)
- Compliant to Pratt & Whitney Canada Service Bulletin #1703R6
- All digital engine and flight data system
- Permanent storage for >10,000 hours of flight information

SUPPORTS BOTH FIXED-WINGED AND ROTARY-WINGED AIRCRAFT

- Embedded Flight and Maintenance Operational Quality Assurance (FOQA/MOQA) analysis
- Enhanced safety and training
- Reduced operating costs

POC IS WORKING WITH MAJOR INDUSTRY MAINTENANCE REPAIR AND OVERHAUL OEMS TO WHICH THE ETMR HAS BEEN APPLIED.



/// SPECIFICATIONS

TYPICAL PARAMETERS

- GPS position, altitude, speed, time
- Air data speeds, temperatures, altitudes
- Flight attitudes, attitude rates, accelerations
- Engine/rotor speeds, torques, temperatures, fuel flows, pressures, chip detectors
- Electrical voltages, currents
- Flaps, autopilot, ice protection, WoW, stall, CAS alerts, TCAS alerts

SYSTEM INTERFACES

- Discrete inputs (24)
- Discrete outputs (16)
- Analog inputs (12)
- Differential analog inputs (8)
- Tachometer (6)
- RS232 (4)
- RS422 (1)
- RS423 (1)
- MIL-STD-1553B Bus Monitor (2)
- 10/100/1000 Ethernet (2)
- USB 2.0 / 3.0 (2)

ENVIRONMENTAL REQUIREMENTS

- Temperature/Altitude: DO-160G 4B1 and 5B (-40 to 70/Up to 25,000 ft)
- Vibration: DO-160G 8S Curve M, and 8R Curve G, Zone 1 or 2
- Shock: DO-160G 7A
- Power Input: DO-160G 16B with 50ms power interrupt, voltage spike per 17B
- Electromagnetic Interference:
 1. Susceptibility: DO-160G 18B
 2. Induced: DO-160G 19ZC
 3. RF Susceptibility: DO-160G 20RA
 4. Emissions: DO-160G 21L and 21M

PHYSICAL CHARACTERISTICS

- Size: 6.3" x 9.3" x 4"
- Weight: 3lbs.
- MTBF: 10,000 hours



MEMORY UNIT: May be configured as a stand alone unit or integrated into ETMR