

EDM 800 Product Features

(some functions may be optional)

Hands-free, automatic scanning (711: primary only)

All programming done from the Front Panel

LeanFind™ finds the first and last cylinder to peak with true peak detect — eliminates a false peaks

Displays both leaned temperature below peak and peak

Battery voltage with alarm

24 Programmable alarm limits

Normalize view

DIF low to high EGT with alarm

EGTs to stable 1°F resolution

Shock cooling monitored on every cylinder

User selectable index rate

Fast response probes

Non-volatile long term memory

Records and stores data up to 30 hours

Post-flight data retrieval

Download to Palm™ Computer

Data retrieval software

FAA Approved as primary temperature instruments for CHT, OIL, TIT

RPM

MAP

Oil temperature

Turbine inlet temperature

Outside air temperature

Compressor discharge temperature

Carburetor temperature

Fuel Flow

Solid-state rotor fuel flow transducer

Fuel quantity in gallons, kilograms, liters, or pounds

Low fuel quantity alarm

Low fuel time alarm

GPS interface

Instantaneous fuel flow rate

Total amount of fuel consumed

Total fuel remaining

Time to empty at the current fuel flow rate



The Engine Data Management 800 system is the most advanced and accurate piston engine-monitoring instrument on the market. Using the latest microprocessor technology, the EDM will monitor up to twenty-four critical parameters in your engine, four times a second, with a linearized thermocouple accuracy of better than 0.1 percent or 2 °F.

Think of the EDM 800 as your personal flight engineer. It's always there, working in the background, constantly watching over your engine while you concentrate on flying the aircraft. You can make an entire flight without ever pushing a button, if you so choose. Yet your EDM-800 will be monitoring your engine parameters three times a second and will warn you instantly if any parameter exceeds the programmed limit.

Leaning is accomplished quickly and automatically using the LeanFind™ procedure. With the EDM it is now possible to have substantially more diagnostic information available to you in a timely and usable manner.

Power Source (12/24)

The EDM 800 automatically accommodates both 14 and 28 volt electrical systems.

The EDM 800 collects data and displays it for you in a useful way. You use the EDM 800 to monitor engine temperatures and voltages, adjust the fuel/air mixture, and diagnose engine malfunctions.

The EDM 800 displays temperature digitally and in analog format. The EGT as displayed is based on probes located near the exhaust outlet for each cylinder and the TIT probe, if installed, is adjacent to the turbo charger. These probes are not necessarily collocated with the primary probes therefore; EDM 800 may not indicate the same as the aircraft primary instruments. The analog display is an electronic bar graph (vertical columns, one per cylinder) of EGT & TIT temperatures presented as a percentage of 1650oF. Below the vertical columns the specific value for EGT and CHT are displayed digitally. The dot over the column indicates which cylinder's digital information is presently displayed. The missing bars at the base of the columns indicates the hottest and coldest Cylinder Head temperature trend. During Lean Find mode the leanest cylinder is displayed along with the fuel flow (optional) at that time. Depressing the LF and STEP button simultaneously brings up the adjustable scan rate function, OAT in °C or °F.

Weight & Balance Data

TSO C43b, Temperature Indicator EGT-701 14.5 oz ./ 0.9 lbs

EGT probe MM-111 2.0 oz. each / 0.125 lbs

CHT probe 5050 1.5 oz. each / 0.094 lbs

Wire P.N. WK.-24 Harness 8 ft. 14.0 oz. each / 0.88 lbs

RPM and MAP 1.5 oz each / .094 lbs

There are no field adjustments and or calibration requirements for the EDM 800 series instrument after initial installation. ICA is not required. Maintenance of nonfunctioning or malfunctioning components is limited to removal and replacement of JPI factory supplied new or repaired components as described in the troubleshooting section of the installation instructions.

With the EDM 800 acting as a flight engineer, you can enjoy improved fuel economy, reduced maintenance costs, and extended engine life. JPI is a leader in precision engine performance monitoring. Our expertise is built into the EDM 800. Our patented technology provides the alarms, displays, and sampling algorithms that give you hands-free, must-know information.