**We've all been there.** A downed aircraft costs money. Potentially it could mean the loss of a customer you may never get back. Performing trend analysis on your engine can go a long way towards preventing this from happening. How does trend analysis work and what can it do for you?

Collecting data from your engine at specific intervals can provide information for analysis by a trend analysis service. This service will compare the collected data to your engine's past performance and to data for similar engines. A report on your engine's overall health will be provided. Early detection of small performance deteriorations will allow you to schedule maintenance and take action before a small problem becomes a serious BIG problem or a downed aircraft.

Collecting engine data manually creates a workload which a pilot may be unwilling or unable to perform. Manual data collection also increases the chance of human error. In addition, you will be required to email the data to a trend analysis service on a regular basis. Electronic International's automatic Trend Data Collection System provides a quick and easy process that takes the inaccuracies out of data collection, and is offered at a very reasonable price.

Here's how it works:
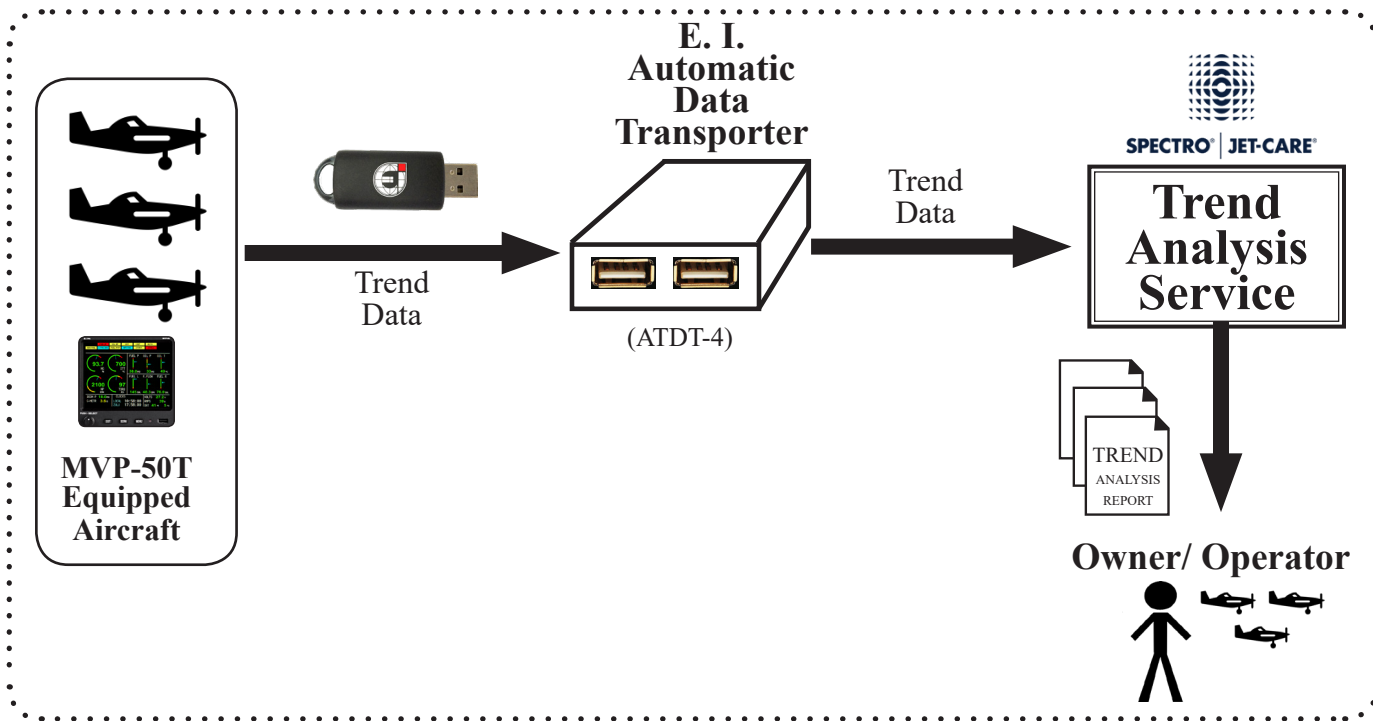
1. At the end of the last flight of the day, place the USB Data Stick into a port on the front of the **MVP-50T**. The MVP automatically downloads the flight data.
2. Exit the aircraft, walk to the office and place the USB Data Stick into the E.I. Automatic Trend Data Transporter. Your job is done. Pick up your coat and go home.
3. In the morning, pick up the USB Data Stick (any stick will work for any aircraft) and head to the aircraft. This simple process begins again (see step 1 above).

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The E.I. Transporter emails the files on the USB Data Stick to Jet-Care (or another trending service that will accept the data). All data is evaluated within 24 hours of receipt and Jet-Care will report back to you via their webECHO™ online site. A status notification report with any appropriate comments will also be forwarded to you. If any significant problem is detected, an alert or advisory report will be issued by email (also via webECHO) and Jet-Care will follow up with a phone call. Routine engine reports are also provided on a regular monthly basis.

Some advantages of providing trend analysis:

- Detects excessive wear early, allowing you to take corrective action.
- Allows you to schedule maintenance when it's most convenient and before the problem become a big expense.
- Provides confidence that your engine is performing as expected. A reduction in engine performance can result in an unsafe takeoff for a loaded aircraft.
- Lets you know if the engine has been damaged (and when it happened).
- Provides objective evidence of the condition of the engine and how it's been treated, which can increase the resale value of the aircraft.
- Data is processed every day (365 per year) and reported within a maximum of 24 hours from the date the data is received by Jet-Care.

Trend Data Collection System hardware:

- The kit includes a Pressure Altitude Transducer, an Airspeed Transducer and the Configuration Update to the MVP-50T already installed in the aircraft. This is required for each aircraft.
- Only one Automatic Trend Data Transporter (ATDT-4) is required for a fleet of aircraft.

MVP-50T TurboProp Monitor

TSO'd STC'd

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(973) 292-9597
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