

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

January 29, 2021

Electronic Device

Specialist's Factual Report By Gerald Kawamoto

1. EVENT SUMMARY

Location: Ford Heights, Illinois
Date: October 20, 2020
Aircraft: Glasair III
Registration: N713MJ
Operator: Private
NTSB Number: CEN21FA024

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following device:

Device Manufacturer/Model:	Grand Rapids Technology EIS 6000
Serial Number:	22801

3.1. Device Description

The GRT EIS Model 6000 is a panel mounted engine monitor. The device contains a back-lit, sunlight readable display providing the operator graphical and digital displays of various engine parameters. The device also assists the pilots to lean the engine and allows for various alarms when monitored systems exceed various settings. The device does not contain any internal memory for the recording of engine information, other than retention of total engine time and length of previous flight.

3.2. Device Condition

Upon arrival at the Vehicle Recorder Laboratory, an examination revealed the unit had not sustained any damage and the device powered on normally.

3.3. Data Description

Figure 1 shows the device powered on with the screen showing parameters retained in internal memory. The parameters displayed are as follows:

- **Flight Timer: 0:32:00 h:mm:ss**
Upon powering, the flight timer shows the length of the previous flight in hours and minutes. This time will be displayed until 3 minutes into the next flight, at which time it will be replaced with the length of the current flight in hours, minutes and seconds.
- **Hourmeter: 10.2 Hours**
This function allows the operator to set the hour meter so that it matches the actual time on the engine. The hour meter may be set to any value between 0 and 6553.5 hours. The hour meter will advance only when the tachometer is above a user defined RPM entry, which is recommended to be set to slightly above the power setting used for taxi in order to more accurately reflect actual flying time. It will reset to zero after 6553.5 hours.

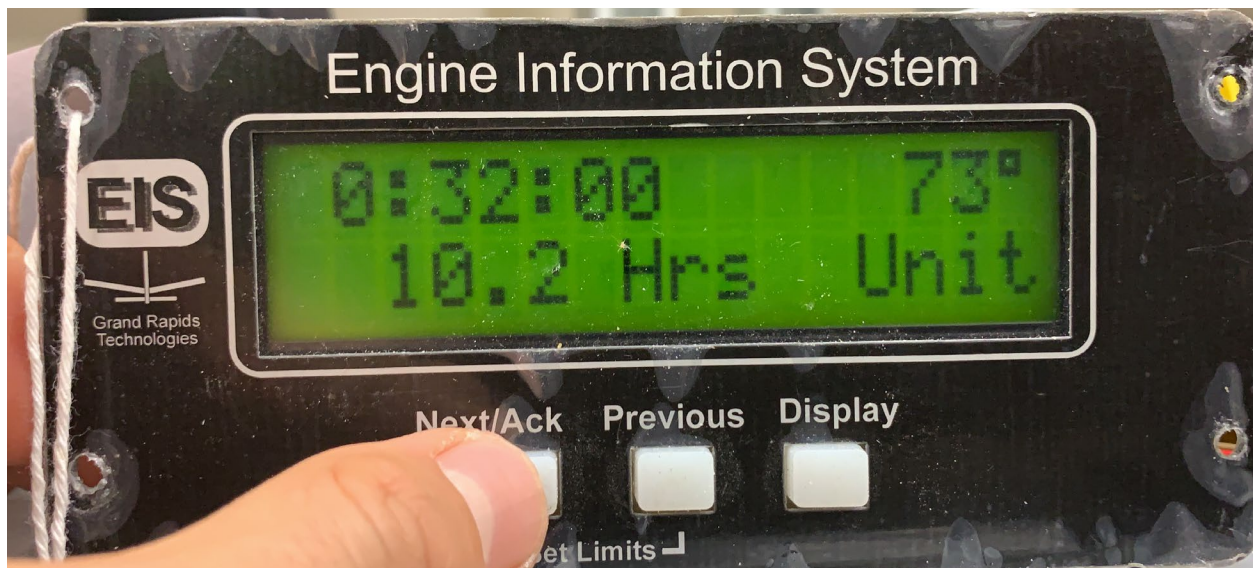


Figure 1. Flight Timer and Hourmeter parameters.