

National Transportation Safety Board

Office of Research and Engineering

Washington, DC 20594



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ENGINE DATA MONITOR

Specialist's Factual Report

July 3, 2023

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A. ACCIDENT

Location: Milton, Florida
Date: February 6, 2023
Time: 1432 central standard time (CST)
Airplane: Vans RV-6, private operator, N330PC

B. ENGINE DATA MONITOR SPECIALIST

Specialist Charles Cates
Mechanical Engineer/Recorder Specialist
National Transportation Safety Board (NTSB)

C. DETAILS OF THE INVESTIGATION

The NTSB Vehicle Recorder Division received the following EDM:

Recorder Manufacturer/Model: Grand Rapids Technologies Model 4000 EIS
Part Number: Model 4000
Recorder Serial Number: 20382

1.0 Grand Rapids Technologies (GRT) Model 4000 EIS Description

The GRT Model 4000 Engine Information System is a panel mounted engine monitor capable of displaying current engine parameters. It does not include a flight log of historical data, but it is possible to see previous engine run time in hours and minutes, approximate total engine hours, and fuel remaining, if a fuel totalizer is connected to the unit.

1.1 GRT Model 4000 EIS Data Recovery

The Model 4000 EIS was slightly damaged in the event due to mechanical impact forces. The extent of the damage is shown in figure 1. The LCD display was undamaged, and the device still powered on normally.



Figure 1. Condition of unit, as received.

D. AVAILABLE DATA

The device was powered using NTSB lab equipment. The fuel remaining was listed as 0, consistent with the absence of a valid fuel totalizer reading. Previous engine run time was 8 minutes, and total engine time was 724.6 hours.

Submitted by:

Charles Cates
Mechanical Engineer/Recorder Specialist