

Information current at Version 3.31D

Engine Log Properties	Telltales	Accumulated Values	Histograms	Engine Operating Hours
Update Rate	25 Hz	25 Hz	50 Hz	1 Hz
Save Delay	5 min	5 min	5 min	?

## Accumulated Values

We are considered to have accumulated data once the engine is operating; specifically, when  $\text{RPM} > \text{Run RPM}$

Values are continually updated (at the rate indicated in the table above), but in order to prevent wearing out the on-board memory (which only has a limited number of writes) the ECU only saves when:

- Battery Voltage  $> 10$  Volts
- Throttle Position  $< 10\%$
- "Save Delay" time has elapsed since the last save **AND** RPM is currently  $< (\text{RPM Limit})/4$  **OR**
  - We have data and  $\text{RPM} < (\text{Run RPM})/2$

Note: The combined (overall) accumulated value (Initial, start value + Current accumulation) will not be displayed by ECU Manager until the ECU is reset - because it is at this point that the value is updated.

eg: Assume Fuel Used is being accumulated and the ECU has stored a value of 10 for it.

1. The ECU is switched on and the Fuel Used channel starts at zero and counts up.
2. Having run our engine for five minutes, the Fuel Used channel has reached a value of 1. As we are currently idling (and therefore well below one-quarter of our RPM limit, have less than 10% Throttle and sufficient Battery Voltage) the ECU saves the current engine-log data.
3. At this point, viewing the Engine Log data in ECU Manager will display 10 (and not the expected 11) because the ECU has *not* been reset.

This is expected to be fixed in a future release.

Telltales and Histograms have similar conditions imposed, but I have not yet documented in detail.

E6/EngineLog (last edited 2006-05-25 12:30:28 by [ShaunFielder](#))