

AN1006_Downloading and Viewing stored data on PE3 ECU Applicable Versions: v3.04.10 and newer Release Date 4/1/2019

Summary:

This document serves as a guideline for downloading and viewing stored PE3 engine data. Applicable versions include PE3-8400 software v3.04.10 and newer as well as PE3-SP software v3.06.00 and newer.

Instructions not valid for PE3-IG Software v3.05.XX

Introduction: Your PE3 has the ability to data log critical engine parameters when configured properly. You may record up to 31 channels of data with a sample frequency of 100hz. When downloaded to your PC, engine data is formatted into a .csv file which can be viewed using the PE data viewing software, available on the website at http://pe-ltd.com/downloads.html

STEP 1: Enable Data logging (you must be connected to ECU)

pe3Monitor by Perform	nance Electronics, Ltd	(Version:	3.04.40) - Offline PE3-840	DO ECU
File Engine Diagno	ostics Tuning D	isplay Da	ata Acqusition / CAN Bus	Help
: 💕 🛃 🦹 🏅 TS 🖥	u 🌏 🗍 +	0.00	Setup and Control	Alt+F6
			Configure the ECU as a	Data Expander
			Data Expander Setup/C	alibration
			CAN Bus Setup	
	-			
	Data Acquisition Setup	and Control	? 🔀	
	Storage Available 22 min	(data stored)	0.0 min)	
*Select your data channels to record	Channel Selection Manual Start Erase Files	Length of Fil	e to Download 30 min 45 min 60 min Vin 2.0 Get File	
*Set your start configuration to agree with the following	Data Acquisition Offline Start Configuration Switch Logical Operator	Status: None Or Greater Tha	→ → n → 50	

STEP 2: Downloading stored data

Data Acquisition Setup and Control					
Storage Available 44 min	(data overwriting)				
Channel Selection Manual Start Erase Files	Length of File to Download 1 min 30 min 5 min 45 min 10 min 60 min 20 min Custom Min 2.0 Get File				
Data Acquisition Armed	Status:				
Start Configuration					
Switch	None ~				
Logical Operator	Or v				
RPM ~	Greater Than V 50.0				

- In the above example, the data is full and overwriting the oldest data. To download data, always select your 'Length of File to Download' to a value greater than the amount of data stored. You may also use the 'Custom Min' option to download specific amounts of recent data.
- When 'Get File' is selected, you will be prompted to name the data file and choose where you want the data to be stored.
- When the download is complete, you will see 'File Transfer Success'
- PE suggest that you 'Erase Files' at the completion of a successful file transfer.

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STEP 3: Launch PE Viewer and Select the specific run file to view

🔀 wing outlaw heat_12-29-2016_001.csv	6,678 KB
🔀 wing outlaw heat_12-29-2016_002.csv	85 KB
🔀 wing outlaw heat_12-29-2016_003.csv	5,001 KB
🔀 wing outlaw heat_12-29-2016_004.csv	14,058 KB

* Notice that data file 004 has largest file size, this indicates that the most recent run file holds the most data. Use this information to determine which run file to choose for your specific needs.

STEP 4: Selecting multiple channels to view

Data To I	Plot					
Fi le	Name	Points	Min Data	Max Data	Min Time	Max Time
2.	RPM	89168		16791	0.000	892.752
2	Air Temp (F)	89168	68.0	68.0	0.000	892.752
2	Coolant Temp (F)	89168	71.8	213.7	0.000	892.752
C	TPS (%)	89168	0.0	100.0	0.000	892.752
D	TPS Rate (%/sec)	89168	-1332	806	0.000	892.752
2	MAP (kPa)	89168	38.61	107.28	0.000	892.752
2	Barometer (kPa)	89168	102.80	102.80	0.000	892.752
D	Battery Volt (V)	89168	9.50	14.00	0.000	892.752
S	Fuel Open Time (ms)	89168	0.00	7.59	0.000	892.752
D	Accel Compensation - Fuel (%)	89168	30.0	225.0	0.000	892.752
D	Starting Compensation - Fuel (%)	89168	100.0	133.7	0.000	892.752

* Use your Left Mouse button to click on a specific channel to view. Hold down the control key 'CTRL' to select more than one channel to view on the same time graph.

STEP 5: Viewing the data

*With Multiple channels selected, choose 'Multi Plot'

peViewer

File Plot Setup Help

ata To	Plot					
Fi le	Name	Points	Min Data	Max Data	Min Time	Max Time
	RPM	89168			0.000	892.752
2	Air Temp (F)	89168	68.0	68.0	0.000	892.752
2	Coolant Temp (F)	89168	71.8	213.7	0.000	892.752
C	TPS (%)	89168	0.0	100.0	0.000	892.752
2	TPS Rate (%/sec)	89168	-1332	806	0.000	892.752
2	MAP (kPa)	89168	38.61	107.28	0.000	892.752
2	Barometer (kPa)	89168	102.80	102.80	0.000	892.752
2	Battery Volt (V)	89168	9.50	14.00	0.000	892.752
2	Fuel Open Time (ms)	89168	0.00	7.59	0.000	892.752
2	Accel Compensation - Fuel (%)	89168	30.0	225.0	0.000	892.752
2	Starting Compensation - Fuel (%)	89168	100.0	133.7	0.000	892.752



*Using the **RED** and **GREEN** vertical cursors, left click and drag each cursor to determine data points and the values for each channel selected. You can also right click within the graph to ZOOM in between the cursors for increased resolution.

Contact Support@pe-ltd.com with any questions

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----- Disclaimer: The information contained in this document is believed to be correct. It is up to the end user to verify the correct setup for his/her application. -----