OLDtronics Monitor

The <code>DLDtronics</code> Monitor has been designed as a replacement for the TAGtronic System Monitor (V5). TAGtronic System Monitor was designed to work in the DOS operating system on particular laptops using PCMCIA cards that are no longer available. The <code>DLDtronics</code> Monitor will run on the latest versions of Windows using a generic USB device to communicate to the ECU, the intention being to 'future proof' the system to enable these old TAGtronic ECU's to be used long into the future.

Compatibility

The OLDtranics Manitar will work with the following ECU's:

- GCU-121 Gearbox controller (McLaren MP4/7, Alfa DTM etc.)
- TAG2.12F Engine controller (McLaren MP4/8, 9 & 10, Jordan J195, J196 etc.)
- MCU-100 Chassis controller (McLaren MP4/8, 9 & 10, Jordan J195, J196, Sauber, Alfa DTM etc.)
- TAG3.8 Engine controller (Porsche GT2, Porsche GT1, Alfa BTCC, Randlinger DTM, Dauer, Ken Matsuura F3000)
- TAG3.12 Engine controller (McLaren F1, McLaren F1-GTR, BMW V12 LM/LMR, Ruf, Kia)
- CEC Car equipment controller (McLaren F1)
- TAG2000 Combined chassis and engine controller (McLaren MP4/11-14, Jordan J197 J198 J199, Prost AP01 AP02, Arrows A19 A20)
- PCU-2 Dash
- PCU-3 Dash

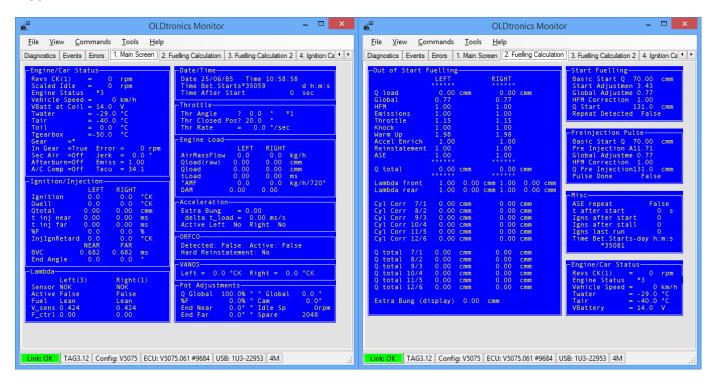
Prinicple Uses

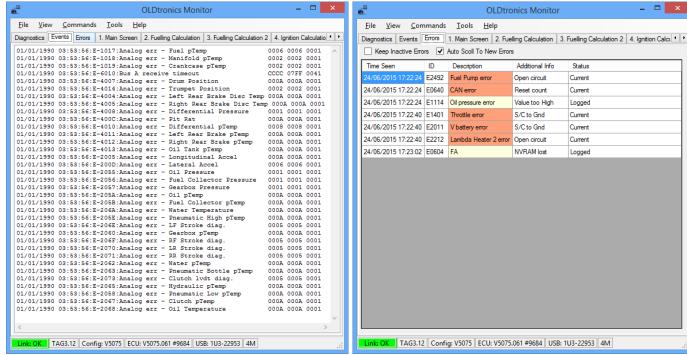
As an owner of a car with a TAGtronic ECU, the <code>OLDtronics</code> Monitor will be invaluable when checking the correct operation of your car. By connecting to the car you will be able to:

- See all the measured values such as pressures, temperatures, revs etc.
- Look at logged minimum and maximum values to see where temperatures peaked, for example.
- Inspect the operation of all the strategies such as fuelling, ignition, gearbox, throttle etc.
- See if any faults have been detected by the system.
- Clear any faults and check whether they re-occur.
- Download any logged data and see what happened on track.
- Save a snapshot of all the values to a log-file and e-mail it to an expert for further analysis.
- Program and tune the ECU.
- Through the use of generic Windows desktop sharing tools, allow an expert to use OLDtronics Monitor across the Internet.

Base Monitoring Functions

The OLDtronics Monitor offers familiar monitoring functions in the same layout as the old System Monitor, therefore you can tab through different pages to look at different strategies, look at sensor errors and time triggered event errors:



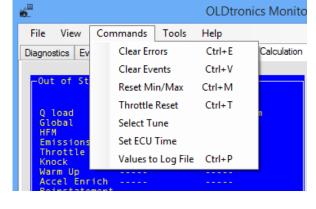


Base ECU Commands

The OLDtranics Manitar provides control over the ECU required when running a car with the following commands:

- Clear the current and logged errors
- Clear the event display
- Reset the min/max values
- Set the ECU time to match the PC
- Reset the throttle zero position
- Select which tune to use ROM or RAM.

Car Configurations



The OLDtronics Monitor requires a configuration to get the correct setting for the version running in the ECU, the configuration is different for each ECU type and each program version running in the ECU. Most users will just have one car running one version, this configuration is included in the base price for the

OLDtronics Monitor. Additional car configurations can be purchased separately. Existing TAGtronic System Monitor users will have access to the necessary files to generate their own configurations for each of the cars they need to work on.

Data Acquisition Data

The latest version of ATLAS no longer supports the reading of data from these old ECU's, therefore this has been included in the OLDtronics Monitor program. The DATAlab (typically chassis data) and Telemetry (typically engine data) type data can be downloaded and saved in

an open-format text file for reading into 3rd Party analysis tools.

Examples of exported data viewed in different analysis tools can be seen below.

Logged Data Download Output File Directory D:\OLDtronics\LoggedData\<UNIT>\<SERNO: Base File Name | PorGT1-117 <YYYY><MM><DD> <hh><mm><ss> Year = <YYYY> or <YY>
Month = <MM>
Day = <DD>
Hour = <hh>
Minute = <mm>
aconde = <a href=" Auto Increment = <INC> 001,002 etc ECU Type = <UNIT> TAG2000 etc Serial Number = <SERNO> 012345 etc Channels 00000000 Type TBD Extract Config 0 Cfa ID Extract Data Channels 0 kBytes Data Download Reset Memory Cancel Close

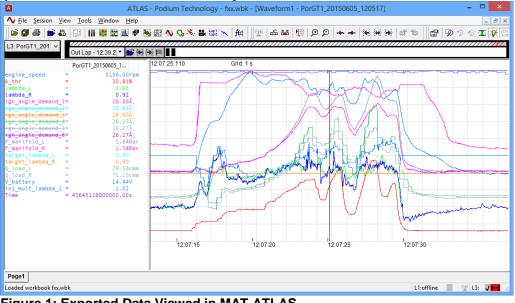


Figure 1: Exported Data Viewed in MAT ATLAS

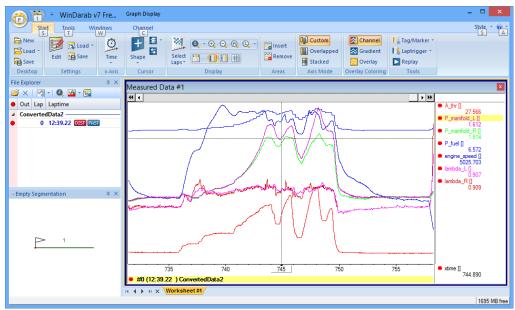


Figure 2: Exported Data Viewed in Bosch WinDarab (Free Version)

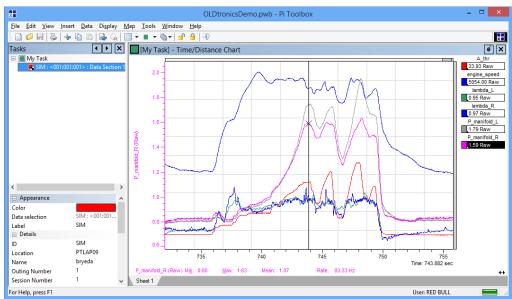


Figure 3: Exported Data Viewed in Pi Toolbox

Select Version

Version List

- 853A.000

8560.000 858A.000

8610.000

862A.000

9630.000 965A.000

Code Version Comments

Tune Comments

None

Buas

853A 608 · OTTestSave

862C.40B : SuzGPShowMH

98073108 - Lap delta function segment length changed to

run times from unit 24289

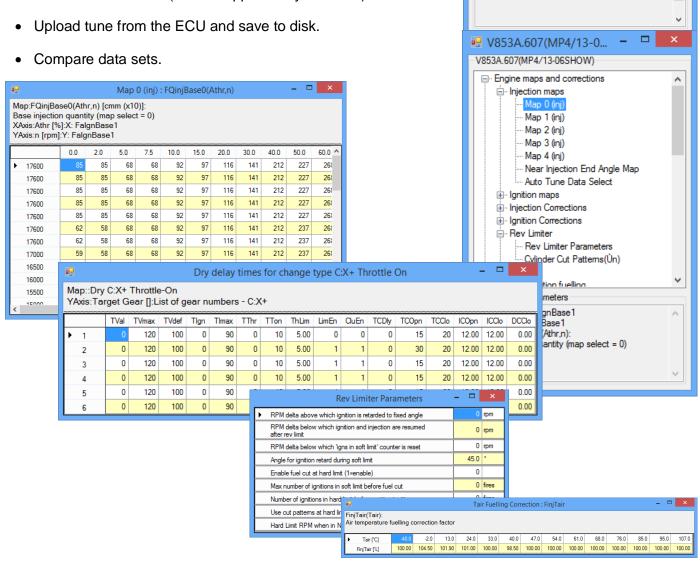
- 862C.501 : JapGP98DC - 862C.601 : WokingDemoMH - 862C.702 : JapGPP1MH

V853A.607MercedesMP4/13showcar

Tuning and Programming

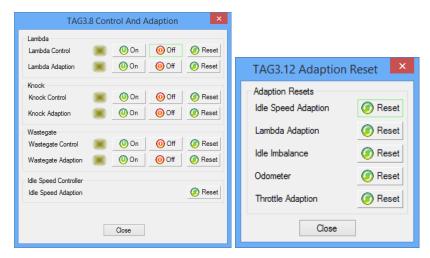
The facility to load, edit, save and program tune data for the ECU is an add-on option. With this option, it is possible to:

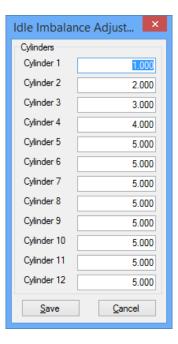
- Load configurations directly from the files used by System Monitor V5.
- Load edit buffers from data sets created by System Monitor V5.
- Edit the tune (all SM V5 formats supported single parameters, 1D maps, 2D maps and structures).
- Save the edit buffer to a data set that remains compatible with System Monitor V5.
- Dump the edit buffer to a text file.
- Make live-tune edits (where supported by the ECU).



ECU Specific Functions

Certain functionality is ECU specific, these features are enabled when required by the supplied car configuration.

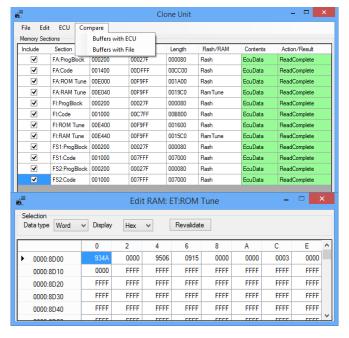


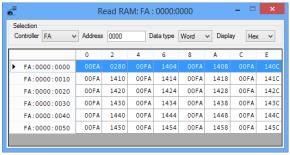


ECU Servicing and Test Tools

Several facilities have been included in the DLDtronics Monitor to enable ECUs to be serviced and tested, such as:

- Clone Unit: Read and save memory areas from a returned ECU for later restoration, prior to return. The ECU contents can be compared with a previously saved state to verify if anything has changed.
- Edit memory areas and re-checksum before downloading (e.g. hand editing unit or sensor calibration areas).
- Read Memory Window: Ability to read the ECU's memory.
- Single Message: Ability to send test messages.







ECU Interface

The OLDtronics Monitor is delivered with the necessary hardware to connect a PC/laptop to the car:

- USB to HDLC Interface, powered from USB cable (85 x 60 x 35mm)
- 0.9m PC to Interface cable
- 2m Interface to car cable (25-pin D-Type to 13-pin Mil Spec, Male)
- Option: Supply turnkey laptop and case

Ordering

The OLDtronics Monitor can be ordered by contacting:

OLDtranics Sprytown Lifton Devon PL16 0AY

Phone: +44 (0) 1566 784508

E-mail: sales@oldtronics.com



Price List

Part No	Description	Price GBP (Excl Taxes and Shipping)
OTMonBase	OLDtronics Monitor Software, one car configuration, USB/HDLC Interface and 2m cable from interface to car (13- pin CGK, male)	£3,850.00
OTMonConfig	Additional car configuration	£450.00
OTMonAcq	Enable reading of data acquisition memory and saving as text files for 3 rd Party data analysis tools such as MAT ATLAS, Pi Toolbox, Bosch WinDarab etc.	£950.00
OTMonTune	Enable OLDtronics Monitor to edit and program tune parameters and read/program legacy TAGtronic System Monitor Tune Versions and configurations. Not available to McLaren F1 customers.	£950.00
OTMonService	Adds the ECU Service and Test Tools (Cloning, Read-RAM and Single Messages)	£1,250.00
OTMonSys	Supply a laptop and case, install software and configuration for your selected components	£600.00