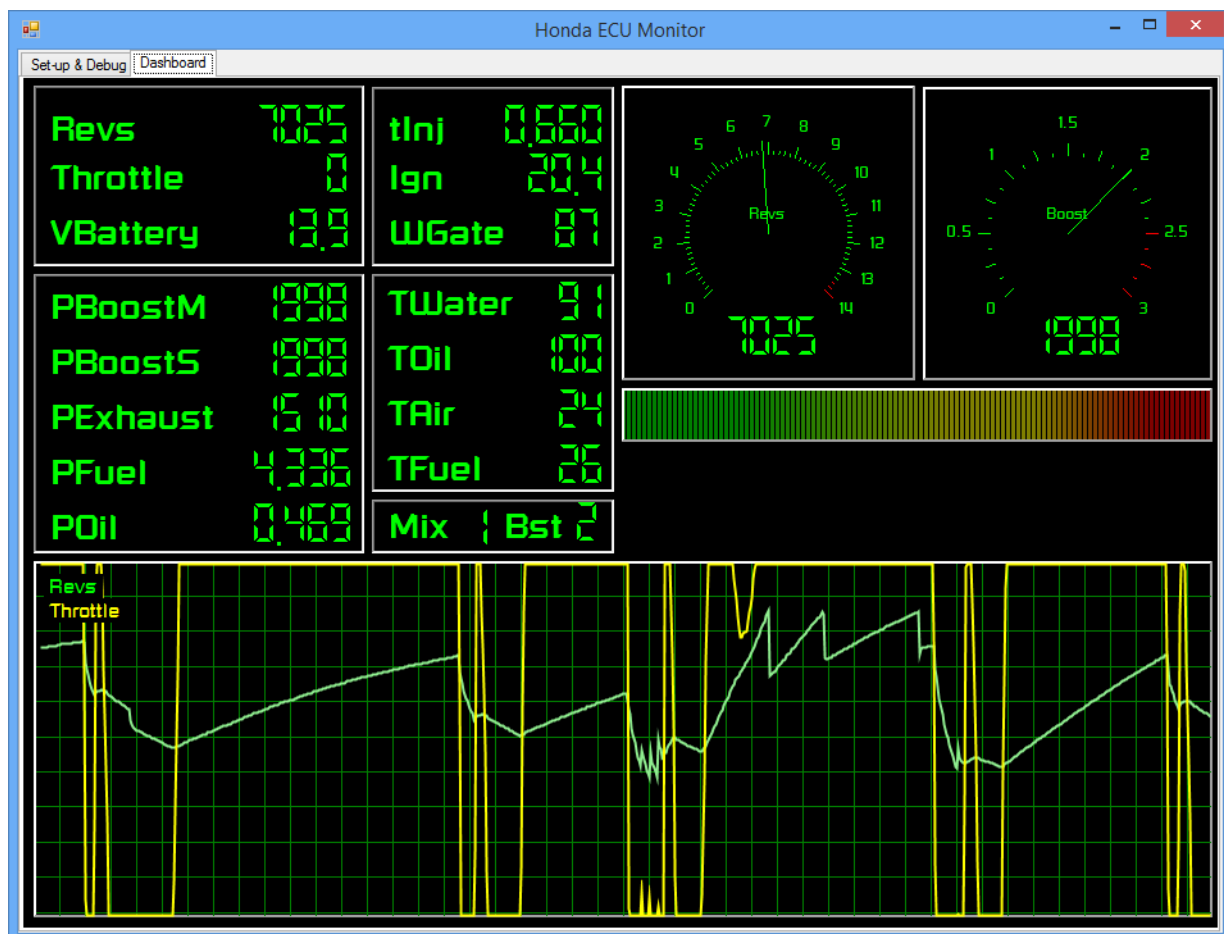# Honda ECU Monitor Program

The Honda ECU Monitor enables a modern laptop to connect into the data stream being sent from the engine ECU to the dash. The data stream makes available many of the sensor and internal ECU values, such as:

- Revs
- Throttle
- Boost Pressure (Main and Spare sensors)
- Exhaust Pressure
- Oil and Fuel Pressure
- Water, Oil, Fuel and Air Temperature
- Mixture and Boost Switch Positions
- Ignition Angle
- Injection Time
- Battery Voltage
- Wastegate Valve
- Lambda
- Steering Wheel Button state
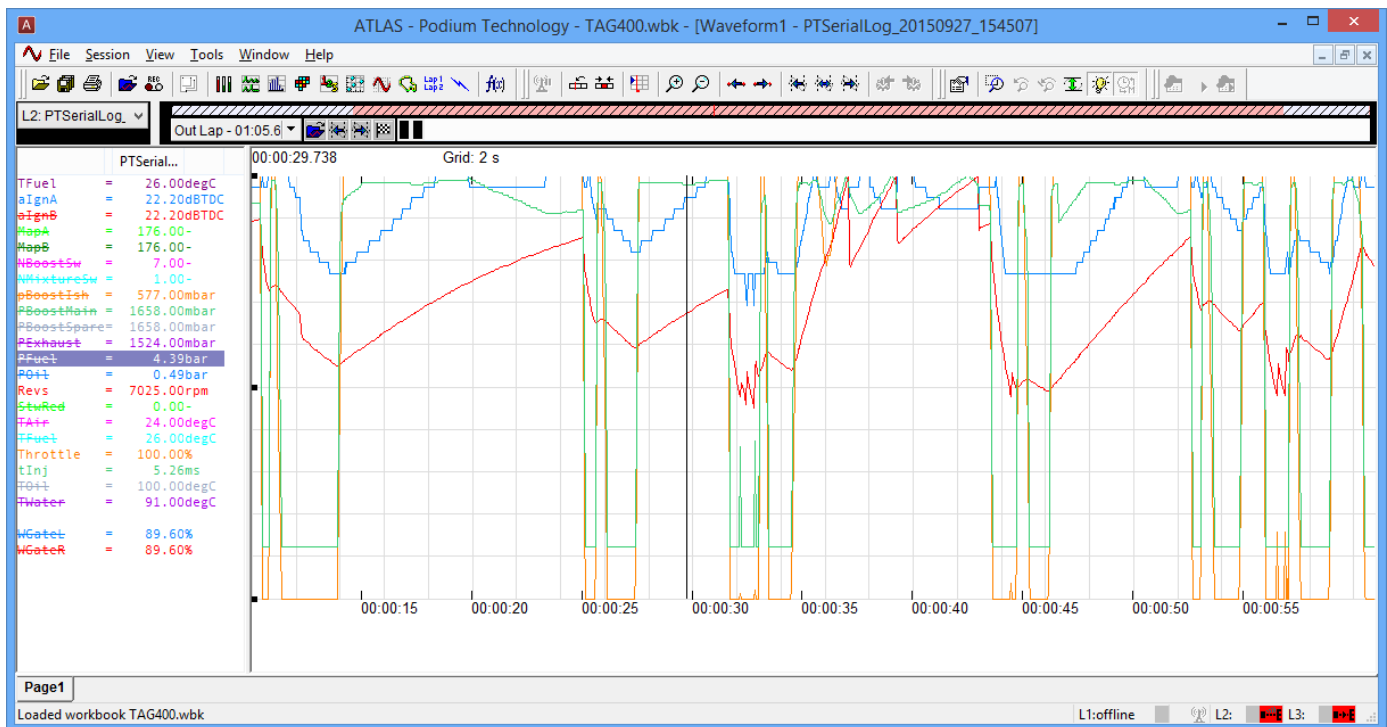- Plus many more parameters that are yet to be decoded.

The Honda ECU Monitor will work with the following cars, subject to confirmation:

- 1988 McLaren MP4/4
- 1988 Lotus 100T
- 1987 Williams FW11B
- 1987 Lotus 99T
- 1986 Williams FW11
- 1985 Williams FW10

Key features:

- The Honda ECU Monitor works with the latest version of Windows and should therefore be future-proof.
- A standard RS232 interface is used (e.g. USB to Serial Adaptor) which should also be readily available into the future.
- The system is supplied with a 'T' piece harness that is connected between the chassis harness and the dash connector, requiring NO harness modifications and is 100% removable to return the car to original.
- The 'T' piece brings a standard BNC connector to the roll-hoop area for connection to the PC – i.e. can replace the standard aerial connector on the car, so the aerial can just be removed and the PC connected.
- Data is presented in a clear display, shown above.
- User can select the signals to display in the waveform
- While the laptop is connected, data is logged to a CSV (comma separated text file) 10 times a second. These files can be opened by Excel or most data analysis programs, such as McLaren ATLAS to view what happened during the engine warm-up etc (i.e. not dependent on any proprietary format, therefore can be used by future programs).
- Two streams with different baud rates can be monitored, if the short-range telemetry option is selected.

The interface converts the serial stream to CAN messages to be passed to 3rd party loggers.