

PoCOM

User Manual



Please read carefully this user manual before using the PoCOM software.

Also please read license agreement before using the software.

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1 Introduction

Thank you for purchasing the PoCOM diagnostic interface and software. PoCOM is professional tool for diagnostics of Porsche vehicles. Please read carefully this user manual before using the product.

1.1 PoCOM key features

- Fully multiplexed all-in-one smart USB2.0 interface
- Automatic ECU recognition
- Automatic vehicle scan
- ECU Identification
- Fault code (DTC) reading
- Fault code clearing
- Freeze frame display
- Measured values / live data
- Live data recording
- Diagnostic protocol printing
- Actuator tests
- Commands / Coding (adaptation reset, component adjustment, ...)
- Configuration ("ECU Coding")

List of supported cars and control units including diagnosis capability is available at <http://www.obdtester.com/pocom-eculist>

1.2 Software updates

Software updates in diagnostic version are available for free. You can download them from <http://www.obdtester.com/downloads>. When downloading, type a serial number of your interface as user name. Password leave blank. The serial number can be found in *settings* of PoCOM after performing *test interface*, or on silver label of the interface. We recommend you to maintain software up-to-date, because updates provides support for new ECUs and fix various PoCOM issues. We also recommend you to update firmware in diagnostic interface every time you update the software. Firmware upgrade process is as follows:

1. Connect your interface via USB to your computer.
2. Go to *settings* of PoCOM and perform *test interface*.
3. Click on "*Apply Changes*" button.
4. Click on "*Upgrade firmware*" button.

Do not disconnect the interface during upgrading the firmware.

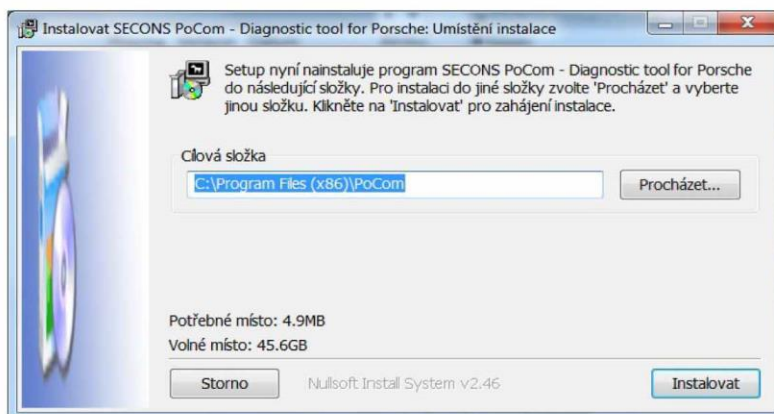
2 PoCOM software and driver installation

2.1 Microsoft Windows operating systems

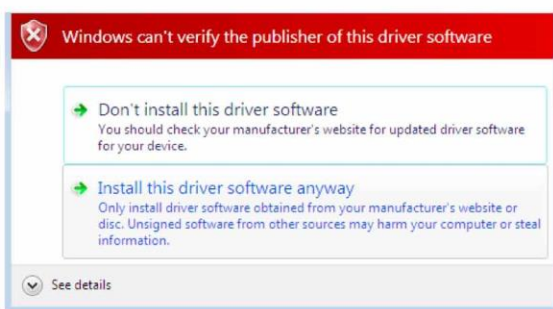
1. Insert PoCOM installation CD to your CD-ROM drive
2. Run installation file PoCOMSetup.exe
3. Choose language for the installer



4. Choose your destination folder for the PoCOM and click *Install* button and after successful installation click *Close* button.



PoCOM drivers are automatically updated during the PoCOM installation. When prompted to install „unsigned“ drivers, click on *Install this driver software anyway* (Microsoft® Windows® 7) or *Continue Anyway* (Microsoft® Windows® XP).



Microsoft® Windows® will automatically install drivers when you plug-in the PoCOM to USB port. Driver installation isn't required for operation on GNU/Linux system.

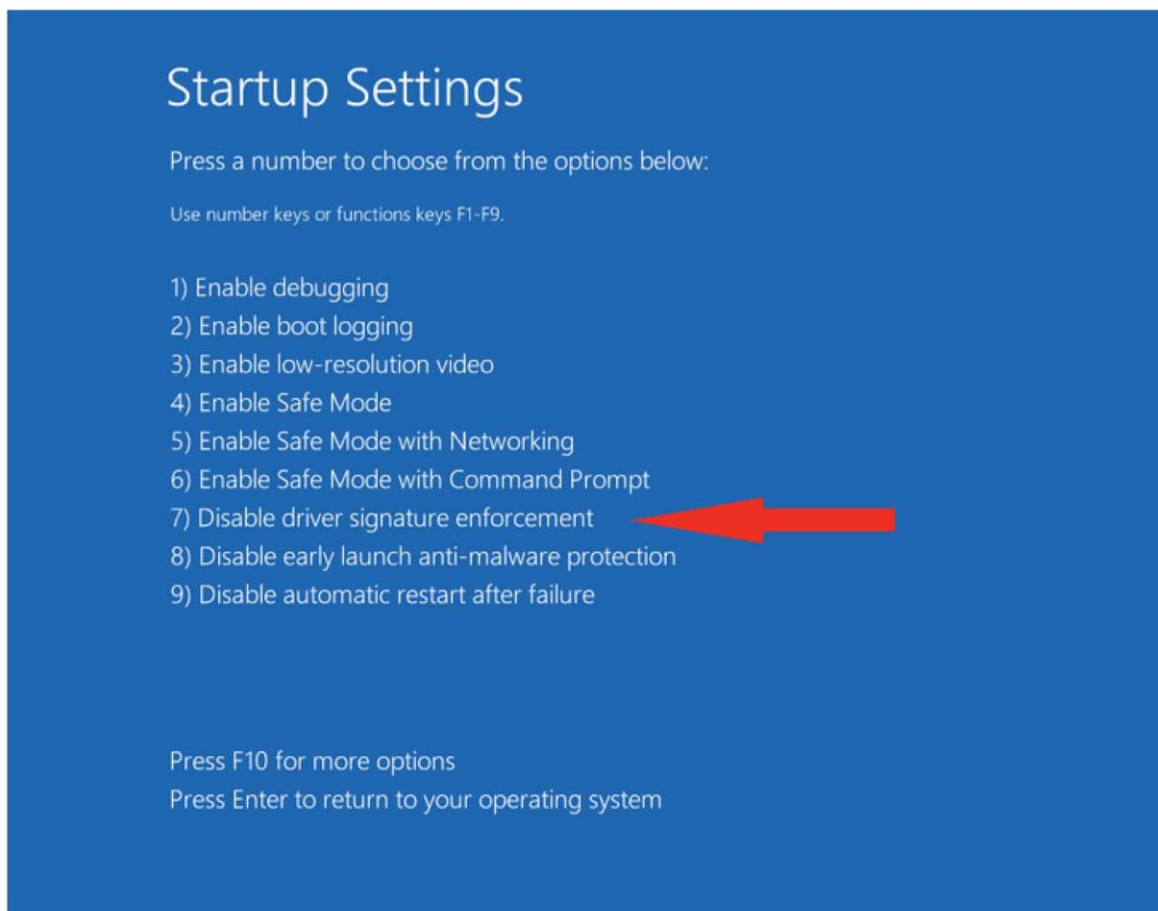
2.2 Microsoft Windows 8 driver installation

In case of problem with installing drivers on Windows 8 64-bit, please follow these steps:

1. Press Windows Key + R
2. In the window that appears, type: "shutdown.exe /r /o /f /t 00"
3. Press "OK" button
4. The System will restart to a "Choose an option" screen
5. Select "Troubleshoot" from "Choose an option" screen
6. Select "Advanced options" from "Troubleshoot" screen
7. Select "Windows Startup Settings" from "Advanced options" screen
8. Click "Restart" button
9. System will restart to "Advanced Boot Options" screen
10. Select "Disable Driver Signature Enforcement" (press number on keyboard for option shown on screen)
11. Once the system starts, install the diagnostic interface drivers as you would on Windows 7



Windows Vista & 7 required signed all .sys files (we use usbser.sys shipped by Microsoft with valid digital signature). Final version of Windows 8 requires also signed .inf file (which is not in our case). The above procedure helps to override unsigned .inf file. Once driver is installed, the program will work properly.



2.3 Interface busy issue [Microsoft Windows]

In case you receive error “Interface busy” while testing your interface, please make sure:

1. You're not running any modem, mobile phone, or printer monitoring application that blocks “COM ports” from being used by other applications.
2. You're not running Hella Gutmann software on the same PC. Process called “GMPortal.exe” prevents SECONS diagnostic applications from properly accessing the diagnostic interface. You may temporarily resolve this problem by running “Windows Task Manager”, right-clicking on GMPortal.exe process in “Processes” tab and selecting “End process”.
3. Software modem drivers do not block COM ports.
4. You have selected correct COM port (use “Device manager” button to find port number under “Ports (COM & LPT)” group).

2.4 GNU/Linux System

Our diagnostic applications are tested to work under Linux. No native Linux binary is available, however we have created our programs to work under Linux and other systems using Wine. For more information about Wine please see www.winehq.org

2.4.1 Requirements

- Linux 2.6+ with USB support (or FreeBSD)
- USB CDC Driver
- Wine 1.0.1 or newer

Recent Debian Linux or Ubuntu meet the above requirements.

2.4.2 Setting up devices

Driver installation isn't required for operation on GNU/Linux system. Diagnostic applications require access to /dev/ttyACMx devices from Wine environment. This can be set-up very easily using these commands:

```
ln -s /dev/ttyACM0 ~/.wine/dosdevices/com5
ln -s /dev/ttyACM1 ~/.wine/dosdevices/com6
ln -s /dev/ttyACM2 ~/.wine/dosdevices/com7
ln -s /dev/ttyACM3 ~/.wine/dosdevices/com8
```

Diagnostic interface should be then visible from the PoCOM diagnostic application.

2.4.3 Installation

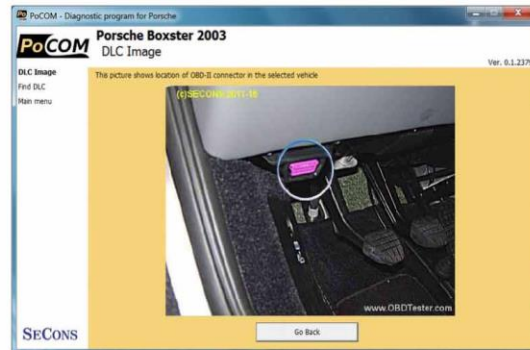
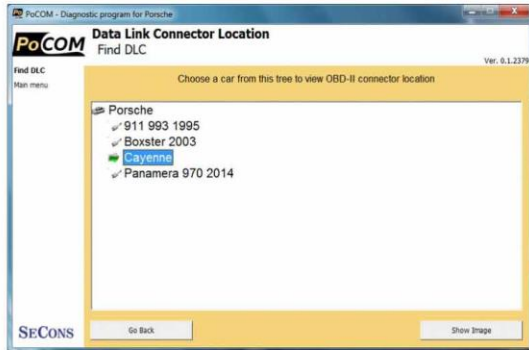
Programs can be installed by launching setup .exe file using wine, e.g. wine PoCOMSetup.exe.



You can download the latest version of PoCOM from www.obdtester.com/downloads

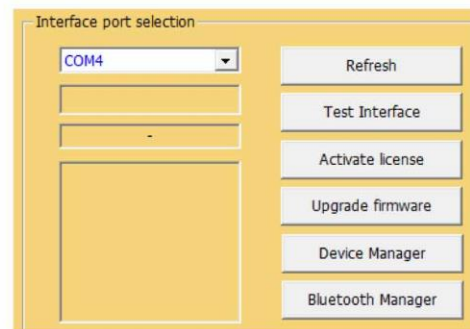
3 First steps

1. Connect the PoCOM interface to your computer.
2. Connect the PoCOM interface to OBD-II connector in the vehicle. You can use picture gallery for find it, available from main menu – *OBD-II Connector Location* button

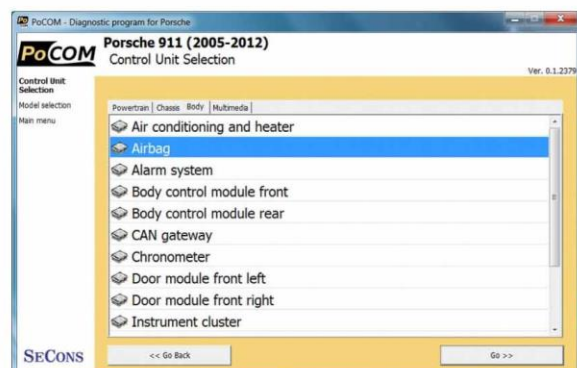
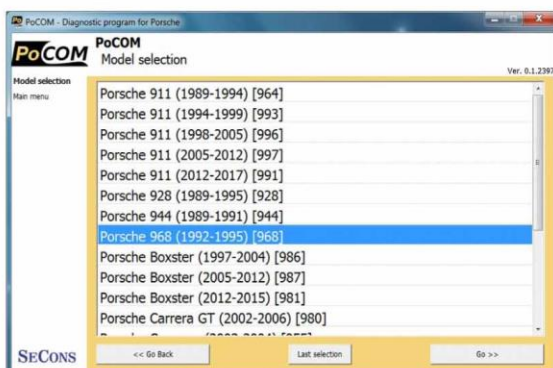


3. Set-up PoCOM application

Select *Settings* from PoCOM main menu and configure interface port. After clicking on *Refresh* button, software should find port to which PoCOM interface is connected. Choose this port. Then click on *Test Interface* to make sure everything is OK. The software should display *Serial number* and licenses (partially hidden on screenshot on the right side).



4. Save settings and return to main menu.
5. Turn ON the ignition, but don't start the engine.
6. Select control unit by clicking on *Select Control Unit* button.
7. Select exact vehicle model.
8. In a new window, choose desired control unit.



9. If the control unit was recognized, you can use diagnostic functions now. In other case, you must select correct type of control unit. (chapter *Unrecognized Control Unit*)

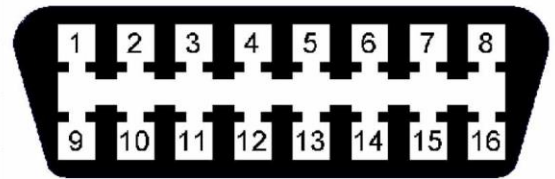
4 Porsche Diagnostic connectors

Location of OBD-II and manufacturer-specific (OBD-I) connectors is available in DLC location database available from the PoCOM main menu.

4.1 OBD-II connector

Standard OBD2 connector is used usually since 1995 (911 type 993).

Terminal 15	1	9	Speed signal
	2	10	
ISO9141 K Line Body	3	11	Knock signal
Ground (GND)	4	12	Programming voltage
Signal ground (GND)	5	13	
CAN-H	6	14	CAN-L
ISO9141 K Line	7	15	ISO9141 L-Line
	8	16	Battery voltage



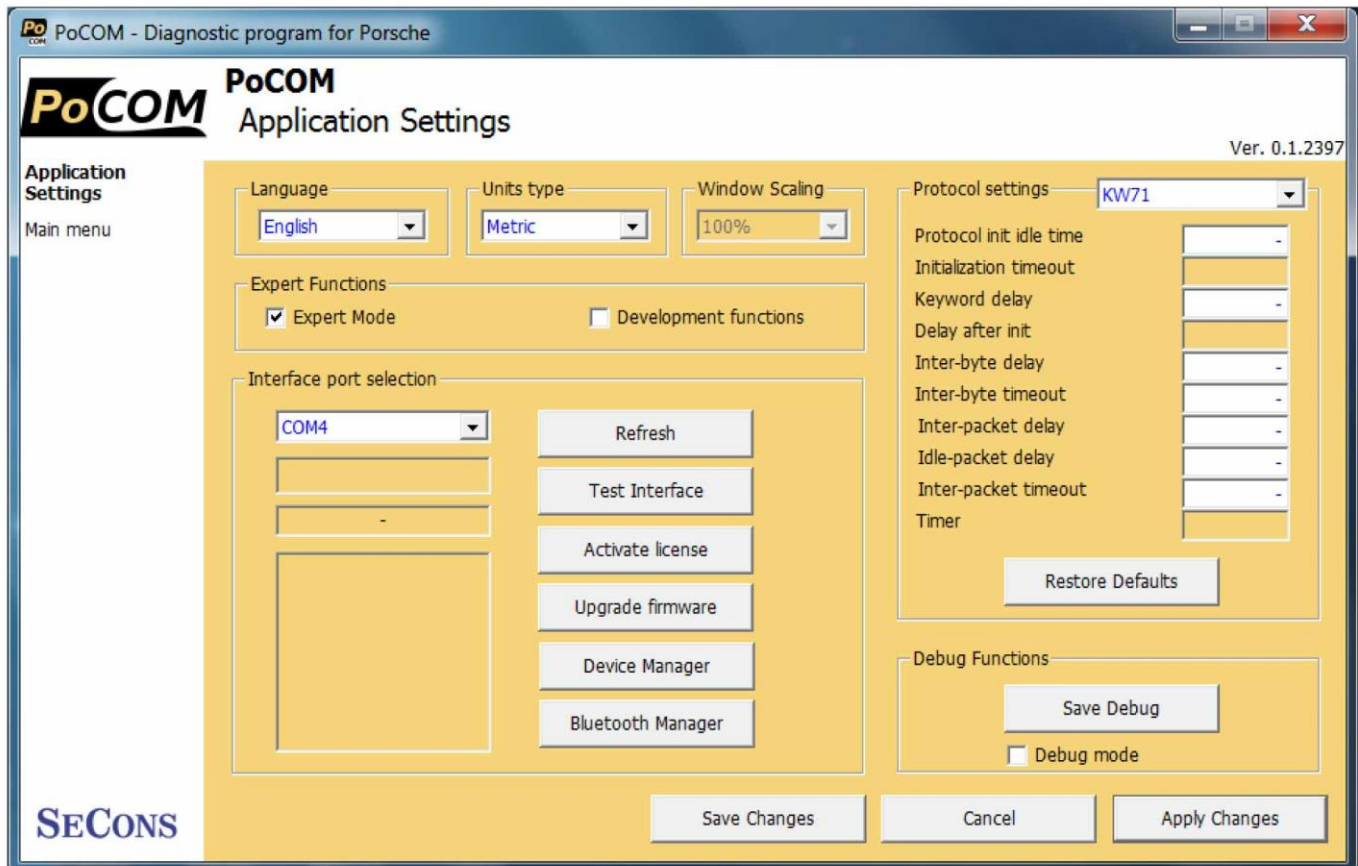
4.2 Pre-OBD-II 19pin connector

Used on Porsche 911 (964) / 928 / 944 / 968, before OBD-II diagnostic connector was introduced.

Pin	Description
1	
2	
3	
4	
5	
6	
7	L-Line ABS, Engine (RXD)
8	K-Line ABS, Engine (TXD)
9	
10	Ground (terminal 31)
11	
12	Terminal 30
13	Terminal 15
14	TD
15	Check engine
16	
17	
18	
19	Knock signal

5 Settings

All functions in settings are described below.



Language - choose language of diagnostic application user interface in the drop down menu.

Units type - you can choose metric or imperial unit system for measured values.

Window scaling – allows to adjust size of the window to the desired size for higher resolution displays. This function is still under development and may not work 100% correctly under some circumstances (e.g. high DPI displays or custom Windows user interface settings, such as specific window fonts). For activation, enable the development functions and select desired scale.

Expert functions

Development functions - Enables additional functions under development. This setting is not saved before program exit and will be cleared on every application start. Do not enable this option unless requested by SECONS support staff as these functions may be dangerous to use without proper instructions.

Expert mode – Enables additional functions such as special coding functions or additional configuration options. These functions are intended for experienced technicians and are provided on “AS IS” basis, with absolutely no guarantee. It is highly recommended to leave this option unchecked. This mode also eliminates some warning messages and questions.

Interface port selection

Refresh - this button refreshes COM port selection drop down list. Correct COM port number should be already chosen after connecting diagnostic interface via USB to PC and clicking on *Refresh* button. If not, choose correct COM port number from the list. It is needed in order to perform successful interface test.

Test interface – before each use of program, please test proper function of your connected interface by clicking this button. After successful test, you can see a serial number of your interface displayed below the COM port field, then firmware version and information about active licenses.

Activate license – this button is used for activating new license/s to use the program or special functions. Internet connection is required. Standard license is already activated for all interfaces before purchase.

Upgrade firmware – use this button to upgrade firmware in your diagnostic interface every time after installing the latest software version (available at www.obdtester.com/downloads). Do not disconnect your interface during upgrading the firmware.


Device Manager – is used to finding out correct COM port number, or to reinstall drivers. Your device appears as “ELM-USB Interface (COMx)” under “Ports (COM & LPT)”.

Bluetooth Manager – is a preparation to upcoming bluetooth feature. The button is currently inactive.

Protocol settings


You can set various timings for each communication protocol. This is advanced feature used for example when problems occur with connection to control unit caused by slower ECU response and the like.

Restore Defaults – this button restores all modified timings of all protocols to default values.

 Changing protocol settings is not required before normal use of the program. You will be asked to make changes by our tech. support when solving your issue at support@secons.com if necessary.

Debug functions

By clicking on **Save Debug** button, you can capture the latest data from elapsed communication between control unit and program into one file. Providing this file is required only by our technical support. Based on these data, we are able to monitor the whole process of performed operation and its correctness.

 Use of debug function is important for successful resolution of any program failure or verifying its causes. For more information on how to proceed, please read the following chapter [#9.Reporting bugs and improvement requests](#).

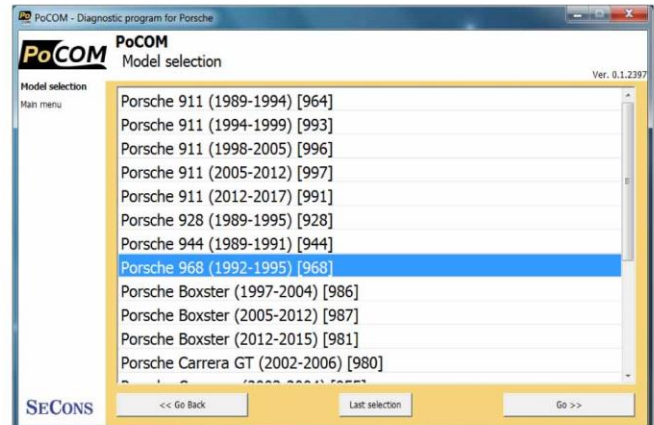
6 Connecting to control units


6.1 Model selection


Before is connection to control units (or performing auto-scan) possible, vehicle model selection is required.

Correct selection of vehicle model is essential for proper diagnostic functions.

Unlike many other Porsche diagnostic tools PoCOM must uniquely recognize each control units in order to perform advanced tasks such as ECU configuration.



 Luxury vehicles usually have high stand-by battery load. It is recommended to perform diagnostics with vehicle connected to a battery charger.

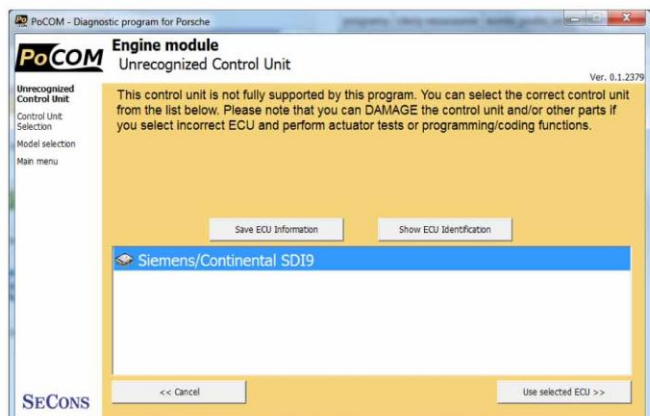
 Some control units may go to 'sleep' mode after a couple of minutes; in such case please cycle the ignition to wake all control units up.


PoCOM may recognize control unit variant uniquely, however it is also possible that installed ECU variant is recognized in a different model. In such case warning message is displayed and diagnosis is possible, but we would like to ask you to send the ECU snapshot file to us in order to examine the problem. Please read chapter [9.3.Unsupported control unit](#)

6.2 ECU variant selection dialog


In a case PoCOM cannot automatically recognize ECU variant for the installed ECU, the following screen is displayed and user must select correct ECU variant.

You can get more information about ECU by clicking *Show ECU Identification* button.



 It is important to choose correct ECU variant for proper diagnostic functionality.

- If you make a mistake in identification, do not perform any of coding or programming functions: incorrect usage may damage ECU or vehicle components.

 Please send us every unrecognized ECU snapshot file in order to add support for related ECU. Please see chapter [9.3.Unsupported control unit](#) for more information.

6.3 ECU subsystems

Many control units use so-called subsystems (sub-ECUs). These are usually small control units such as sensors, actuators, or small control panels that are connected to master ECU using LIN-BUS. PoCOM handles these subsystems as individual ECUs as they can be semi-independently diagnosed and coded/configured.



Please note that fault codes for subsystems are always stored in master ECU.



Typical subsystem is battery DC/DC converter or battery sensor which is connected to CAN/CAN gateway control unit via LIN-BUS.

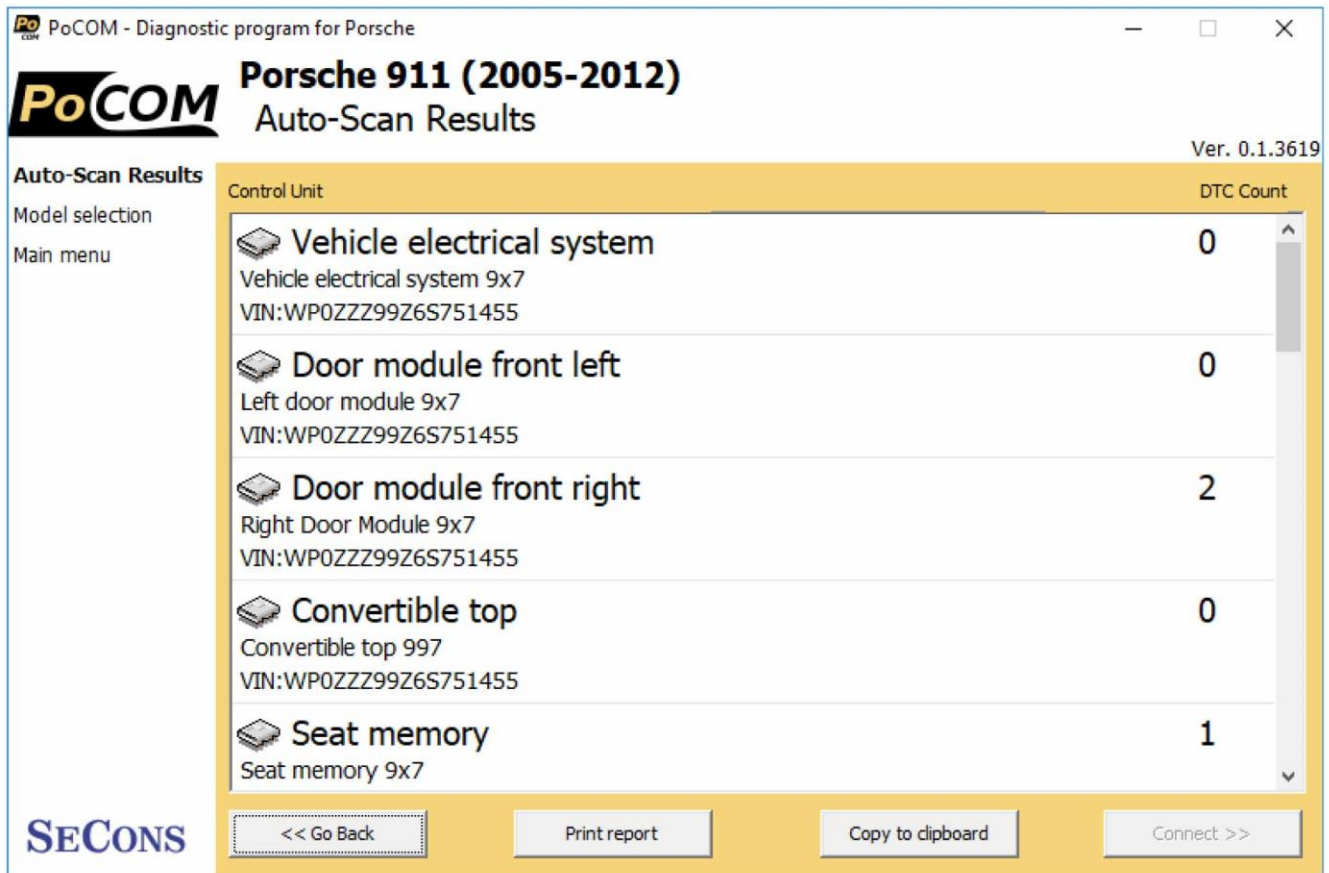
6.4 Common Porsche control systems

This chapter lists common abbreviations used in Porsche ECUs.

Abbr.	Description
AGL	Aggregatlader (Bearing unit)
AMP	Amplifier
ASBN	Actuator structure-borne noise control unit
DME	Digitale Motor Elektronik (engine control module)
ELV	Steering column lock
PADM	Porsche active drivetrain mounts
PASM	Porsche active suspension management
PCM	Porsche Communication Management
PDC	Parking distance control
PDCC	Porsche dynamic chassis control
PDK	Porsche Doppelkupplung (dual-clutch transmission)
POSIP	Porsche side impact protection system
PSM	Porsche stability management (“ESP”)
PTM	Porsche traction management
PTV	Porsche torque vectoring
RDK	Reifen Druck Kontrolle (tire pressure monitoring system)
SBS	Sprach - Bedien - System (Speech-based operation system)
TPM	Tire pressure monitoring

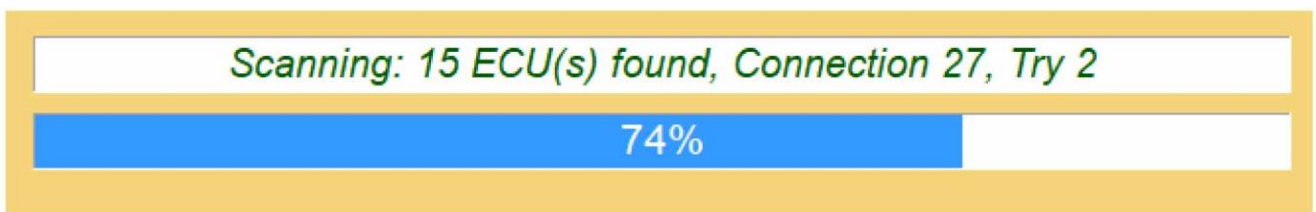
7 Auto-Scan

This function scans for all known ECUs in selected vehicle, and shows the list of ECUs present in vehicle along with number of present or stored fault codes (DCTs).



Autoscan may take a while for high-end models with many control units.

When autoscan is in progress, number of discovered control units and progress is displayed.



When part number or VIN code is detected during auto-scan, it is automatically displayed in the listing. Autoscan window displays also matched control unit type.

8 Diagnostic functions

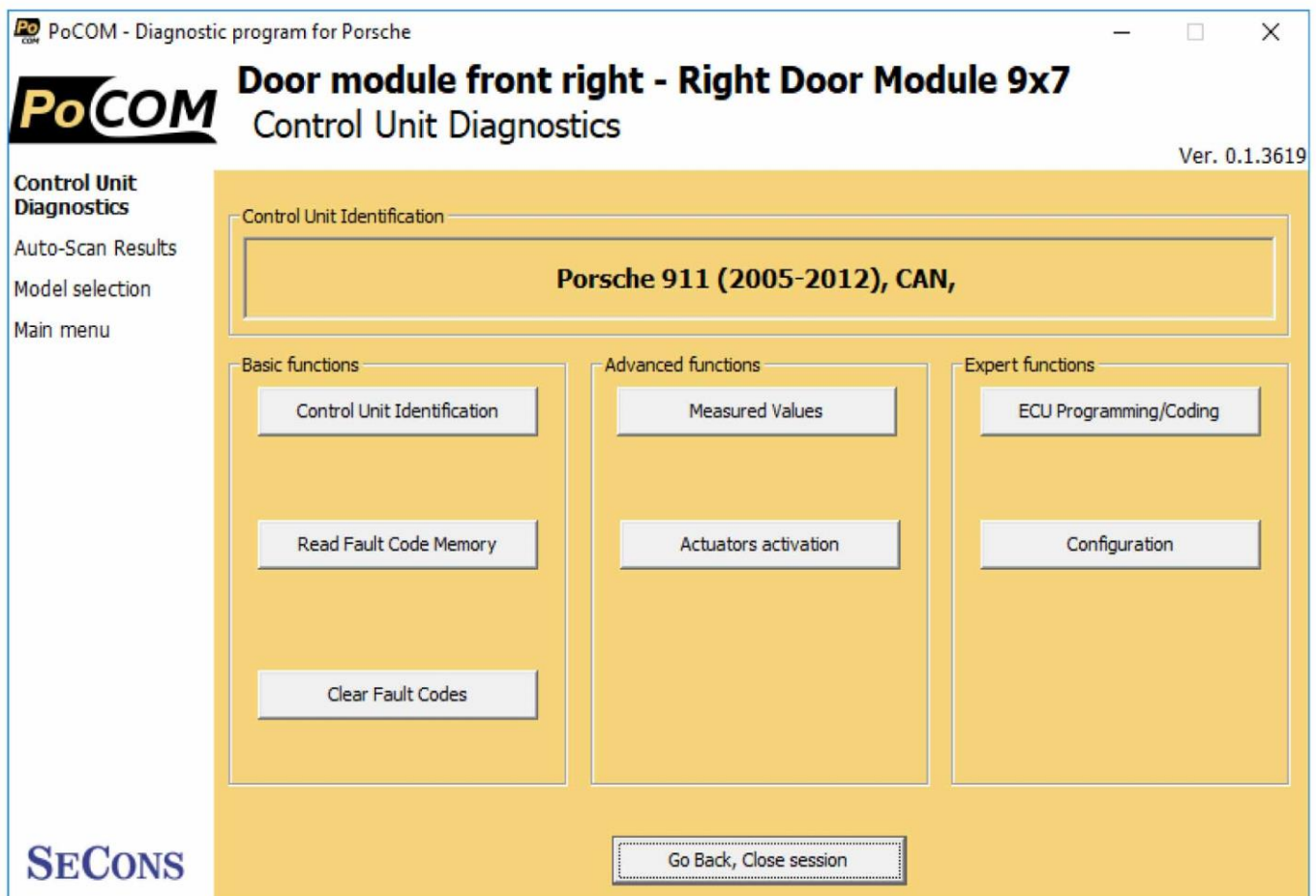
You can connect to ECU by choosing control unit from list of ECUs in selected vehicle or auto-scan listing.

If control unit was identified uniquely, diagnostic menu will be available immediately, otherwise it is necessary to select control unit variant as described earlier in this manual.

Diagnostic menu is divided into three parts. Basic functions, Advanced functions and Expert functions. Basic functions generally safe to use under any conditions. Please note that clearing (deleting) fault code memory may result in additional fault codes appearance even in different control unit(s). Also messages may appear on on-board computer display.

Advanced functions require deeper knowledge of car components. Be careful before activating any actuators – incorrect actuation may damage vehicle components.

Expert functions may have serious consequences if used improperly. Please refer to technical service bulletins and workshop service manuals before running any of these functions.





Many control units have connected sub modules. Typical example is airbag (SRS) control module that connects additional “satellite” modules such as A-pillar sensors, etc. No direct connection to these sub-modules is possible, however main (controlling) control unit provides diagnostic functionality to perform diagnostics also of these sub-modules.

Some VWTP 2.0 or 1.6 control units may refuse further connections after unsuccessful diagnostic session. You can either wait a while to re-establish connection or cycle ignition key to continue.

Some rare (uncommon) ECUs using KW71 diagnostic protocol may not perform diagnosis correctly. Those are found only in older in pre-2000 vehicles. In such case program returns “Unexpected response” error message. Please report them to us for problem resolution.



8.1 Control Unit Identification

This function can display only identification data accessed by ECU, for example:

- Porsche Part Number
- Manufacturer Part Number
- ASAM Information
- VIN number (not available on all ECUs and may be truncated)
- Protocol
- Other values such as manufacturer part number, depending on ECU



Please note that some vehicles do not have correctly programmed VIN code or other data (such as programming date/etc), or data are incomplete (such as missing several VIN characters, etc.)

PoCOM - Diagnostic program for Porsche

PoCOM Door module front right - Right Door Module 9x7
Control Unit Identification

Ver. 0.1.3619

Dealer number	0001
Diagnostic software number	5001
Hardware version number	0001
Porsche part number	99762418203
Production number	07463687
Reserve (production/customer service)	0000000001
Serial number	000F96D6
softwareVersion	1000
VIN	WP0ZZZ99Z6S751455
VIN (B)	WP0ZZZ99Z6S751455
Protocol	CAN
Bus Pin	HSCAN500614

Control Unit Identification

Control Unit Diagnostics

Auto-Scan Results

Model selection

Main menu

SECONS

<< Go Back

Save ECU Information

Copy Values

Print Values

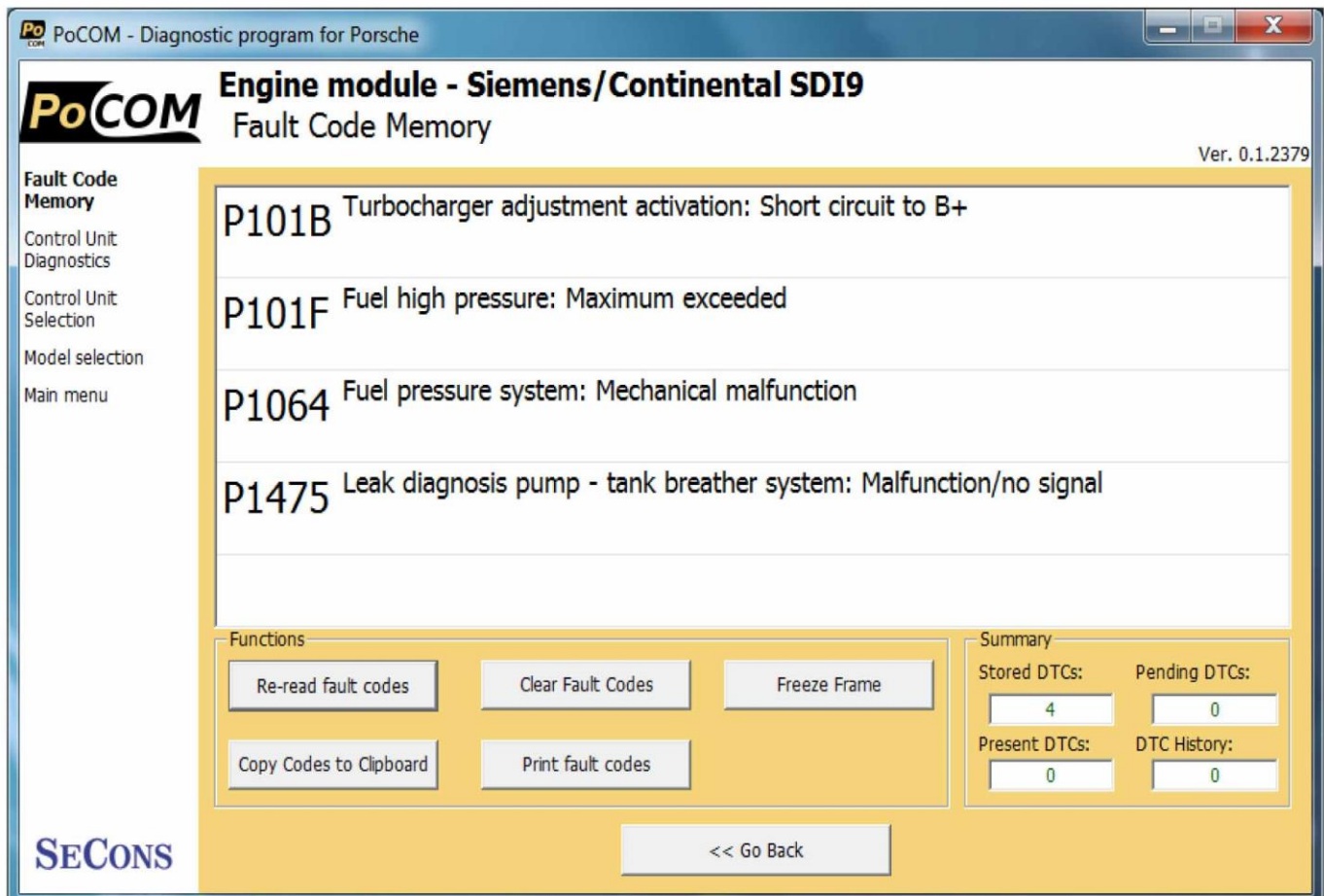
You can print identification by clicking *Print Values* button or you can copy it to clipboard by clicking *Copy identification*.




If the control units has connected sub-control units (e.g. via LIN-BUS), part numbers or other additional information is displayed in the identification listing.

8.2 Read fault code memory

This function allows you to read and display diagnostic trouble codes saved in control unit memory.



Important notice: Some ECUs do not support fault code reading.

 *"Static" error is simply the opposite of "Sporadic" and "Intermittent". When a DTC is marked Sporadic or Intermittent, it means the fault condition that set the DTC did not exist (or could not be detected) at time the DTC read-out was performed.*

8.3 Clear Fault Codes

This function clears fault code stored in ECU memory.

Fault codes might appear again or under some conditions isn't possible to clear fault codes at all. It's possible that in the presence of some faults control unit doesn't allow to clear fault codes or fault is in no time written back to memory.

It is recommended to read memory by clicking *Re-read fault codes* button again.

It is not possible to clear fault codes in some powertrain hybrid control units. This is known problem.



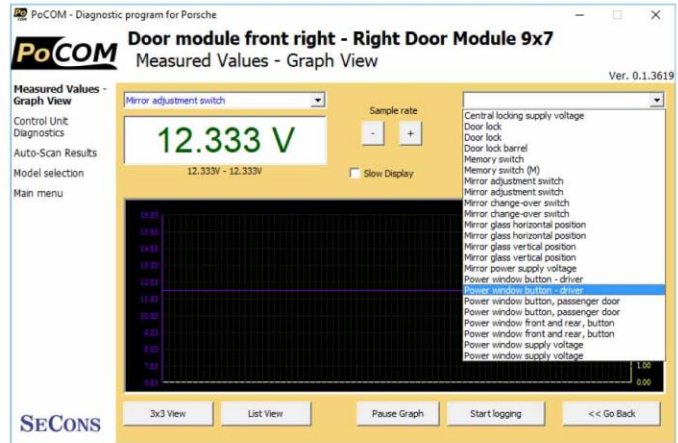
8.4 Measured values

Some control units are not equipped with all sensors: in this case, some sensors may show a limit values (minimum or maximum).

8.4.1 Graph display

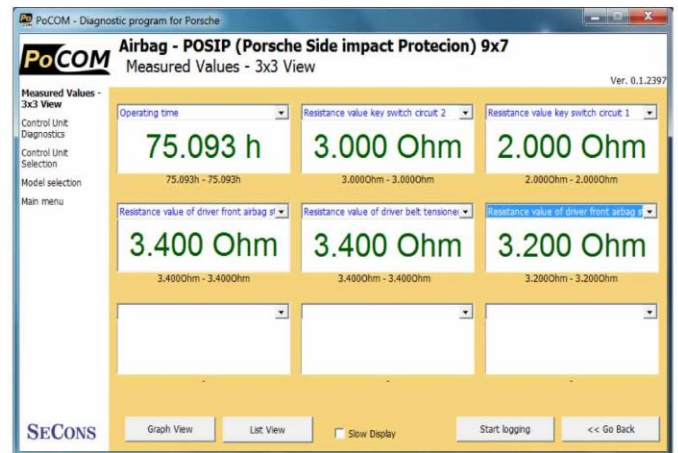
This function displays two measured values (also known as live data or sensor values) simultaneously. Measured parameters can be chosen from selectors at the top of the window.

Buttons + and – allow to accelerate or decelerate speed of the graph.



8.4.2 Display 3x3

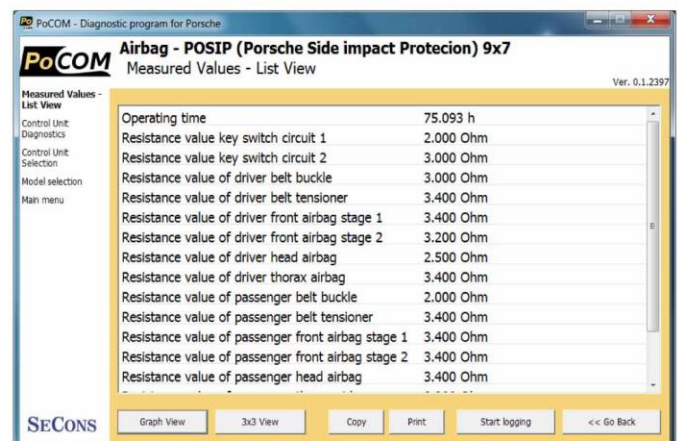
For measuring 9 value simultaneously, click on *3x3 View* button.



8.4.3 Display list

To measure all available values simultaneously, click *List view* button.

Please note values means slower refresh rate.



8.4.4 Save to log

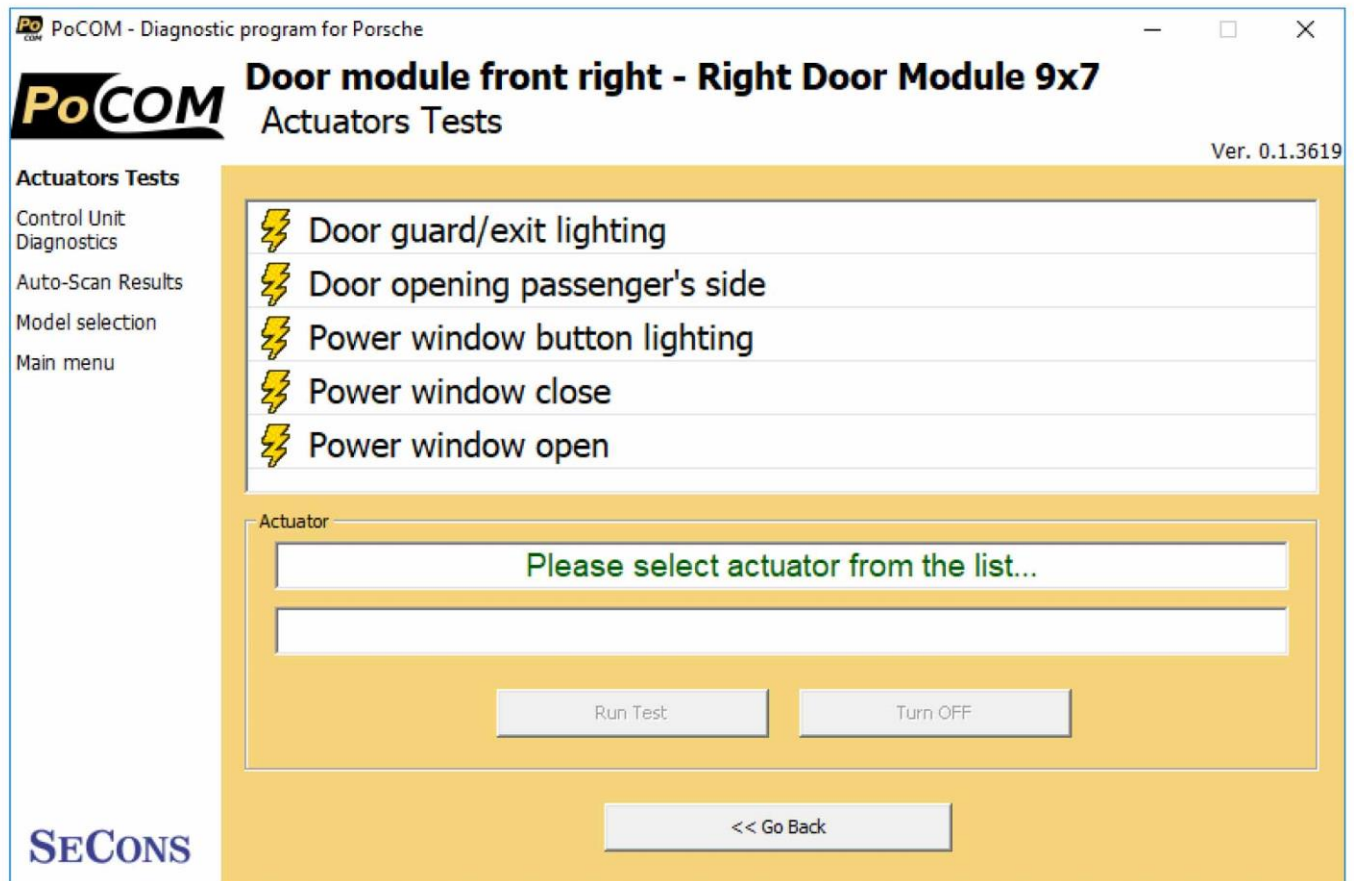
Measured values can be saved/logged to a file by clicking *Start logging* button. The log file is standard csv file and it is compatible with VagScope or can be imported to Microsoft Excel or OpenOffice Calc.

8.5 Actuators activation

This function can activate actuators and perform some actuators actions.

Some actuators cannot be terminated. In such case please turn ignition off to turn the actuators.

Some actuators run automatically for specified time.

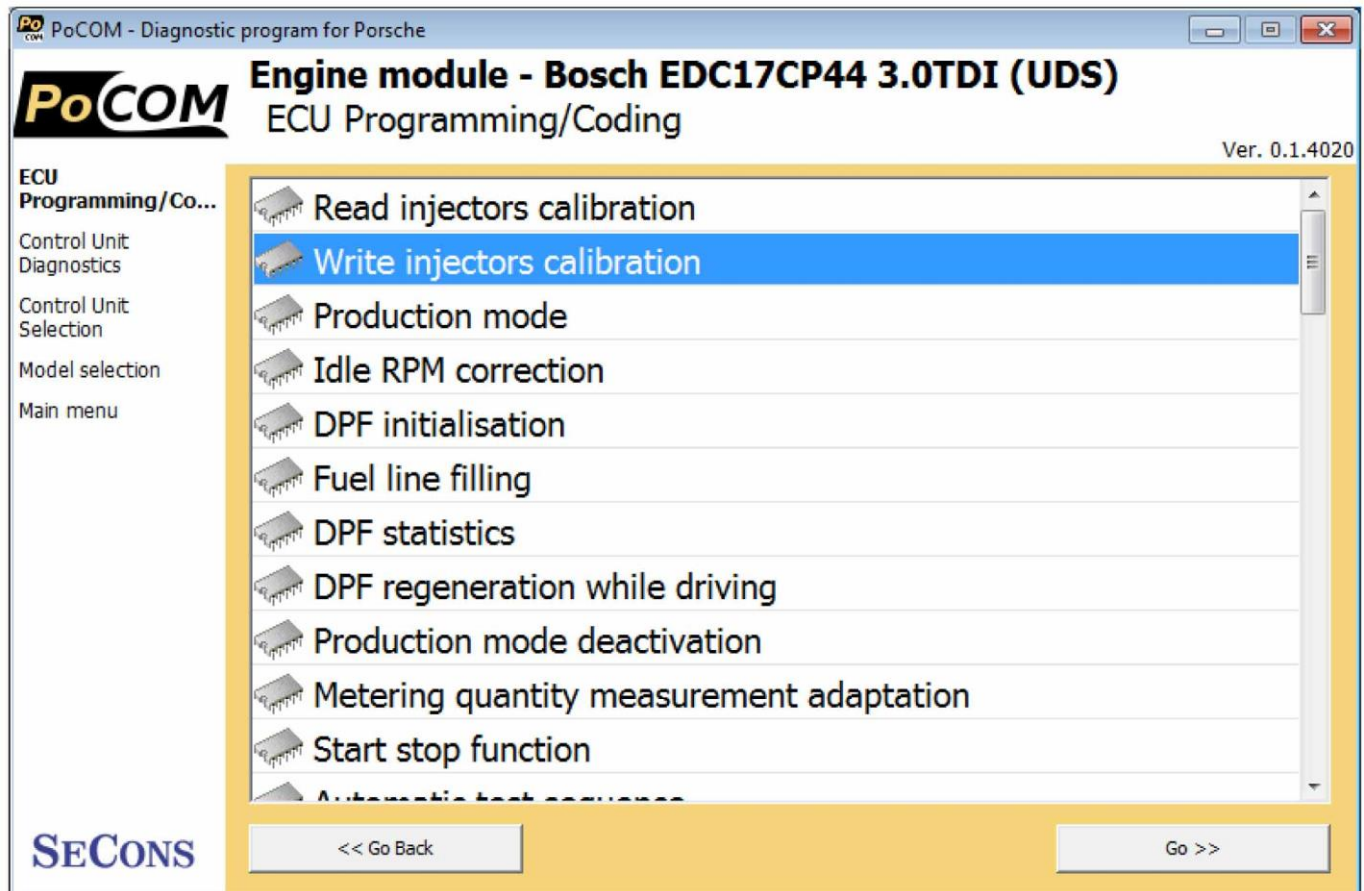



Make sure you understand consequences of activating ECU components. Also make sure that activation conditions (engine idle, engine running, etc.) are met. Always consult all tests with car repair handbook.

There are known actuation problems in some control units. Please report to us any misfunctional actuator tests.



8.6 Coding and programming functions (commands)

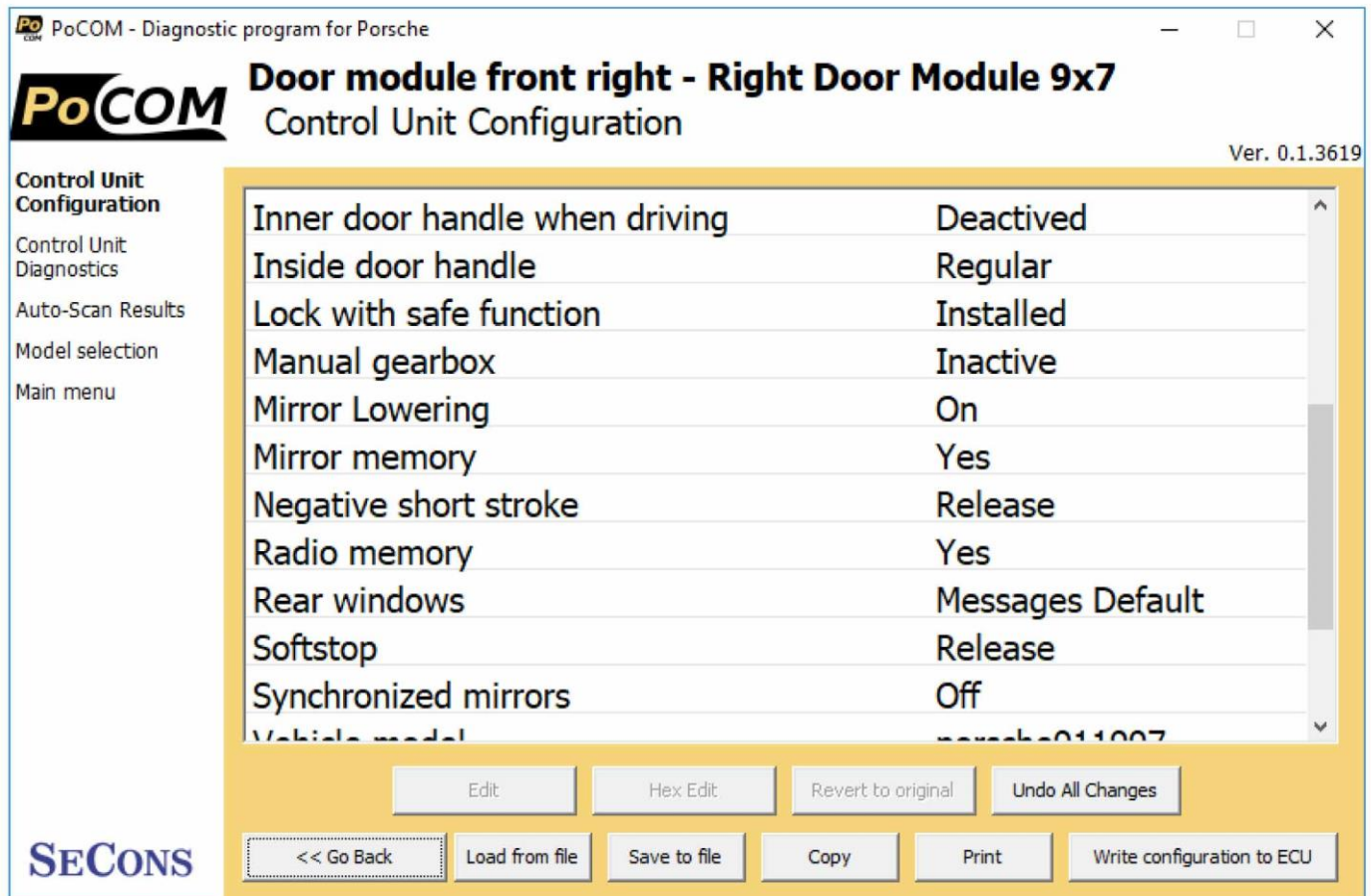


 More information about programming functions are available at <http://www.diagwiki.com>. Please note that this function is currently under development.

8.7 ECU Configuration

This function allows you to configure control unit parameters, or transfer configuration between ECUs after replacement. It is possible to reconfigure control unit(s) multiple times, thus allowing to re-use control units.

You can see listing of supported coding for each ECU in our PoCOM diagnostics coverage (please note that actual number of configurable parameters may vary due to different ECU variants).



PoCOM - Diagnostic program for Porsche

PoCOM Door module front right - Right Door Module 9x7
Control Unit Configuration

Ver. 0.1.3619

Inner door handle when driving	Deactivated
Inside door handle	Regular
Lock with safe function	Installed
Manual gearbox	Inactive
Mirror Lowering	On
Mirror memory	Yes
Negative short stroke	Release
Radio memory	Yes
Rear windows	Messages Default
Softstop	Release
Synchronized mirrors	Off
Vehicle model	Porsche 011007

Control Unit Configuration
Control Unit Diagnostics
Auto-Scan Results
Model selection
Main menu

Buttons: Edit, Hex Edit, Revert to original, Undo All Changes, << Go Back, Load from file, Save to file, Copy, Print, Write configuration to ECU

SECONS

Always save backup of configuration to a file before making any changes.

If no editable values are displayed, it is still possible to save or restore configuration via a file.



If complete configuration load fails for any reason, it is still possible to continue with ECU configuration data subset.

The configuration data retrieved from the control unit are verified for validity after loading.

First check is performed to validate data consistency (such as data check-sum). If data consistency


validation fails, prompt if you really want to continue is displayed. This usually happens only when control unit is not yet programmed, or data are corrupt. The diagnostic application is able to fix this problem when writing new configuration to the control unit. It is possible to continue, however writing incorrect data to the control unit may damage either control unit or vehicle components.

Then all data are checked for validity. If invalid configuration option is found, warning message is displayed.

The window displays all user changeable values.

Meaning of colors

Grey line	Read-only value (cannot be changed)
Black line	Editable text, original state (not yet edited)
Green value	Editable, changed by user
Red	Un-decoded value
Violet/pink value	Un-decoded changed value

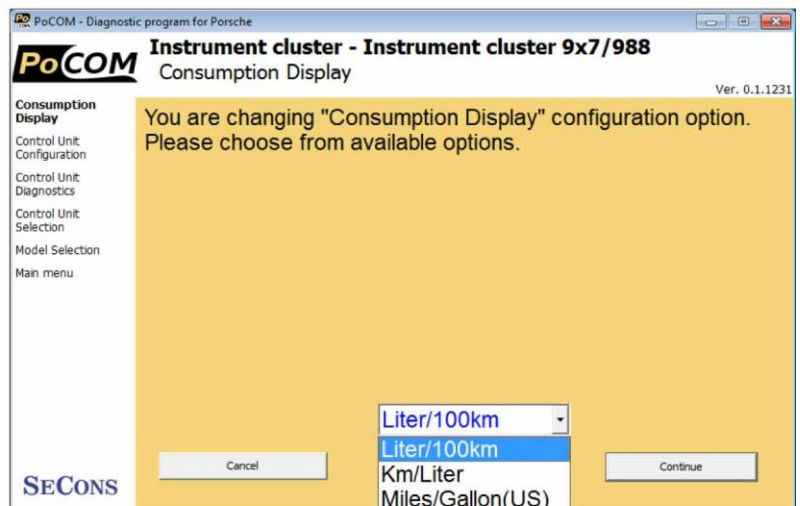
 More information about configuration functions are available at <http://www.diagwiki.com>.

8.7.1 Edit

This button allows you to change currently selected value.

Detailed instructions on valid value format and it's range is displayed.

After editing please check displayed value is correct as it may change – diagnostic application may adjust the value to meet the control unit requirements (the value may get rounded, clipped, etc.)



8.7.2 Hex edit

Available only in expert mode or for values that cannot be correctly decoded. This function is used

to directly edit binary representation of the value.

8.7.3 Revert to original

Reverts currently selected value to original state.

8.7.4 Undo all changes

Reverts to original configuration (as retrieved from the control unit when entering this window).

8.7.5 Load

Loads configuration from a file. Data file is checked if matches the connected control unit.

8.7.6 Save

Saves configuration to a configuration file (for restore or configuration transfer) or to a text file (report).

8.7.7 Copy

Copies configuration to operating system clipboard.

8.7.8 Write configuration to ECU

Programs configuration to the control unit. Before writing new configuration to ECU always check each value if it has desired state.

The diagnostic application will automatically adjust data checksum or other dependencies.

The control unit may reject new configuration if configuration data are not applicable (or are generally incorrect) for the ECU. In such case writing original (unchanged) data should succeed.

Some control units have configuration in read-only mode. If you require to write configuration to such ECU, please contact us for further assistance. In most cases we should be able to help, however we will require some assistance from your side with problem resolution.



9 Reporting bugs and improvement requests

Our customers can take advantage of our full technical support for free. You can contact our technical support at support@secons.com with any technical questions and requests.

In case you encounter to failure of any program functions (e.g. fault codes reading/clearing, coding functions, actuator test, connecting to ECU, test interface, ...), or you miss some function or some function does not work sufficiently, please follow the steps below.

Note:

Before sending support request for failing operation, please make sure you have met all conditions required for the operation (e.g. you are entering correct data, correct engine temperature for DPF regeneration, correct number of keys for engine start, etc).

In case of communication issues we recommend to check diagnostic plug connection and retry procedure at least once, connection problems may result in erratic communication issues.

Please, prepare the following data in your email before sending your request to our technical support:

1. Detailed description of failure or your improvement request
2. Vehicle description - VIN code, model, manufacture year, engine type
3. Attach **Debug Log** (in case that required function doesn't work properly). This file captures data from the latest communication between program and ECU, so we can detect failure causes.
4. Attach **Snapshot** of tested ECU – this file contains important information about tested control unit In all cases please attach snapshot of **INJ (engine) + BSI (body computer)**.



9.1 How to create **Debug Log**

It is necessary to perform operation that is not working correctly first. Once failure occurs, go back directly to settings in main menu (do not close the program). Click on “Save Debug” button. Name and save the file into well known directory in your computer.

Enable “Debug mode” check box only at our special request.

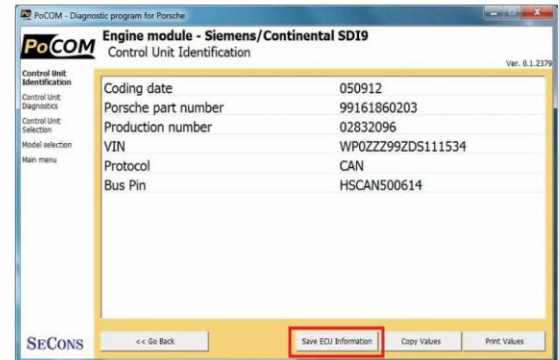
This function is used to tell program enable special functions in diagnostics interface and to log more data than required for normal operation.





9.2 How to create ECU Snapshot

After connection to tested control unit, click on “Control Unit Identification”. In following screen, click on “Save ECU Information”. Choose directory to save the file and confirm. Saving may take a few minutes.



9.3 Unsupported control unit

In case you are prompted with “Unrecognized control unit” window and:

- the installed ECU is not available in the listing
- or you are not sure which control unit to choose
- or you wish to get the ECU automatically properly identified in next PoCOM version
- or you just want to help us to improve PoCOM

We will be more than happy to add any unsupported or unrecognized control unit to next PoCOM version. We are usually able to do this within one or two working days based on so called “ECU snapshot file”:

From “Unrecognized ECU” window or “Control Unit Identification” window (after connecting to ECU), please click on “Save ECU Information” button and save the file to your computer.

Please send the generated file(s) to support@secons.com.

9.4 Problems with configuration

In case you encounter any difficulties with configuration (coding) data, please provide the following:

- Debug log
- ECU snapshots
- Listing of original ECU configuration data (either via saving to a file or “Copy to clipboard”)

10 Planned improvements

The following improvements of user interface are planned for next release:

- Resizable windows
- Screenshot to PDF or PNG
- Live data logging improvements
- Connection to online services