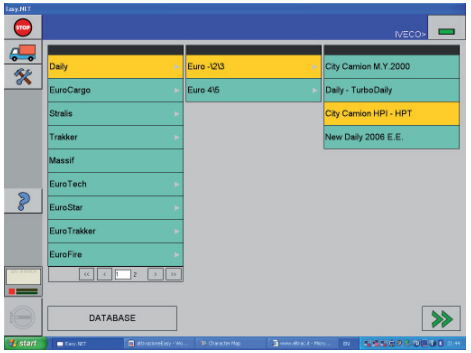
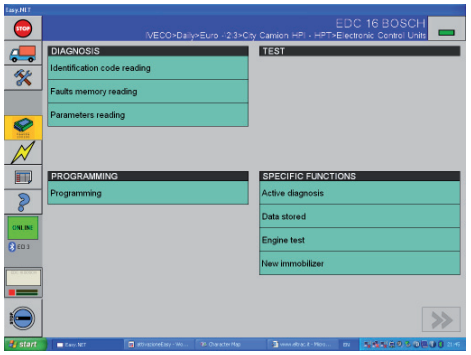


1. select the Group, the Category and the Model under test to which the vehicle belongs
2. press the NAVIGATION button FORWARD (enabled - green) to continue

If the Guide to Diagnosis is available (GAD), the user should consult it by automatically accessing the GAD environment (see unit 10).

To continue the work on an electronic system, select the key ECU'S AREA>ADD ECU. *Now it is possible to select the Class and the Electronic System; confirm by selecting the* RIGHT ARROW *key*

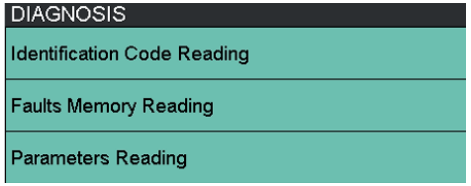
If the GAD is not available, select immediately the Class and the Electronic System; confirm by selecting the RIGHT ARROW *key.*



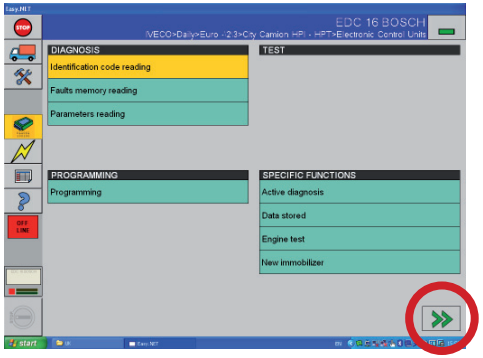
3. the window Choose Activity appears; it is here possible to choose from four lists:

window Choose Activity

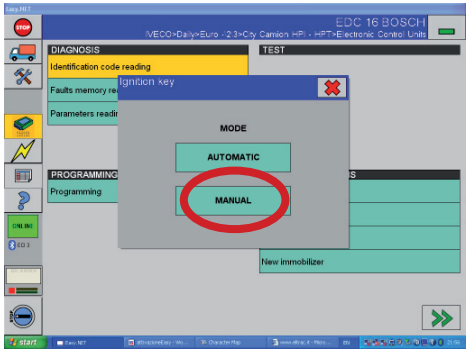
- diagnosis
- test
- programming
- specific functions



4. the present Repair Guide describes the diagnosis environment and the specific functions to which it is associated:
   - Identification Code Reading
   - Faults Memory Reading
   - Parameters Reading



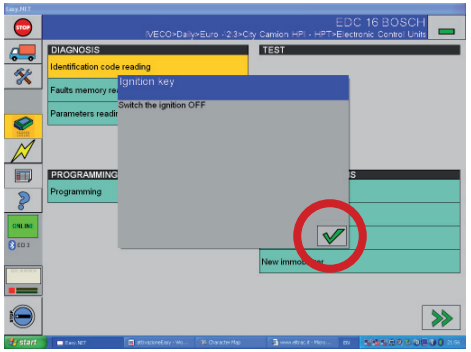
1. to access the Read Identification environment select the item **Identification Code Reading** from the Diagnosis list and then press the NAVIGATION button FORWARD



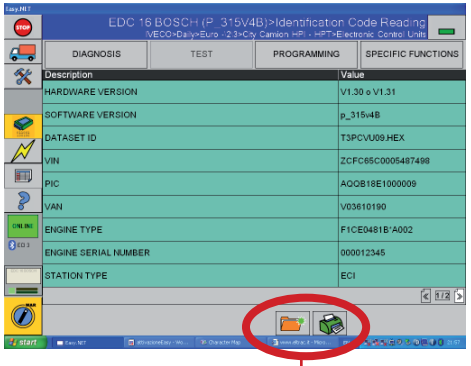
2. E.A.SY. system presents a pop-up window where to select the automatic or the manual activation of the ignition key; select the required mode; the KEY button is disabled

under the automatic mode all activation of the ignition key are controlled by the diagnosis instrument (key button working)

under the manual mode all activation of the ignition key are controlled by the operator;



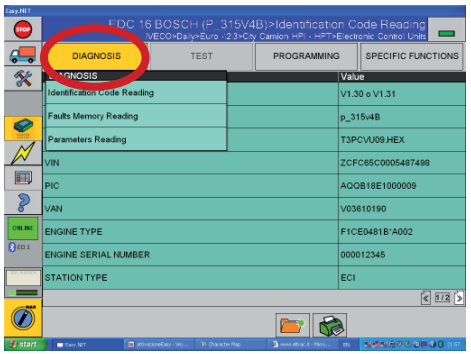
3. confirm the new message by pressing the TICK icon



4. wait until the ECU is ready; the general information about the electronic system under test is read:
   - identification code
   - HW version
   - SW version
   - production date
   - …

	REPORT **key** shows the Diagnosis Report List (and allows you to print each report)
	PRINT **key** prints the summary page of Identification Parameters

After identification code reading it is possible to carry out other activities (step 5) or to return to the window Choose vehicle (step 6).



5. to access the other activities from the environment Identification Code Reading, select the CHOOSE ACTIVITIES buttons: choose an activity; the system automatically access the selected activity

the CHOOSE ACTIVITIES buttons are shown in yellow when selected

6. to exit the diagnosis of the vehicle under test select the button ECU'S AREA>ECU UNDER TEST>CANCEL

Multitasking option

E.A.SY. introduces a very important news: it is possible to associate more ECU's to the family of vehicle under test.

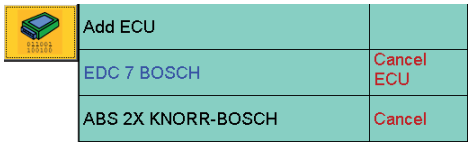
Add an ecu

It is possible to interrupt the diagnosis with an ECU and to start the procedure with another one.

1. select the button ECU'S AREA>ADD ECU; the Choose Vehicle window will appear, where you can select the desired ECU

Managing more ecu's

It is possible to operate with two or more connected ECU's at the same time.

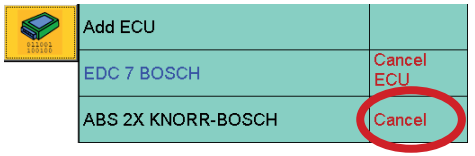


1. select the button ECU'S AREA>DESIRED ECU

The activity remains interrupted for the not selected ECU's and can be started again at any time.

Cancel an ecu

It is possible to stop the activity on one of the connected ECU's.



1. select the button ECU'S AREA>REQUIRED ECU>CANCEL
2. select the required ECU

Ignition Key Button Modes – on line/off line

At the system start up the ON/OFF button is ON-LINE if the ECI module is activated and connected to the PC, otherwise is disabled (OFF-LINE).

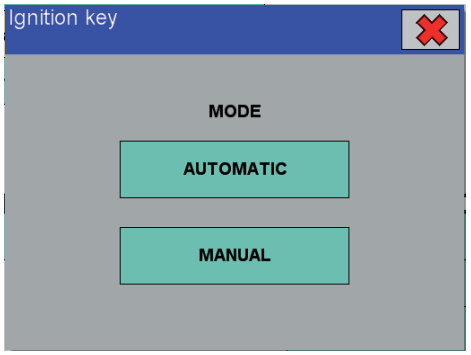
On line mode

The function "Ignition Key" is active; it can be managed in automatic or manual mode; the "ignition key" screen appears only after the selection of a function that requires it (e.g. diagnosis functions).

In automatic mode all ignition key activations are managed by the diagnosis instrument.

In manual mode all ignition key activations are managed by the operator on the vehicle

The automatic activation depends on the type of vehicle; make sure the vehicle supports the function before selecting automatic mode.



1. after selecting the automatic mode a test procedure is carried out
2. switch the IGNITION OFF
3. the vehicle chassis may move

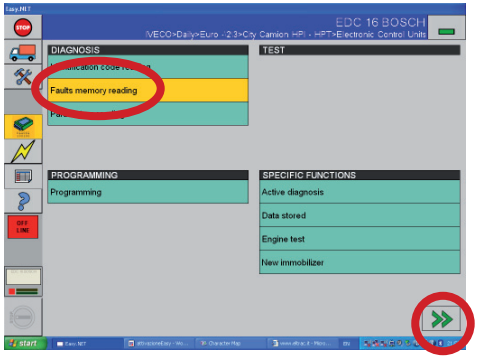
The E.A.SY. SW activates the ignition key and displays a screen page in which it asks to check the dashboard; if it is turned "on" the diagnosis procedure can be continued; otherwise the system asks for position of the key to ON in manual mode.

Both in manual and in automatic mode:

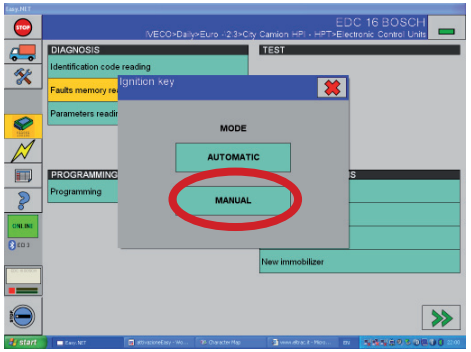
1. before ignition key activation a message is always displayed: request (manual mode) or warning (automatic)
2. when the ECU is cancelled a message indicates that it is necessary to interrupt the communication and then to confirm the operation
3. the chosen mode remains until the vehicle under test is changed

Off line mode

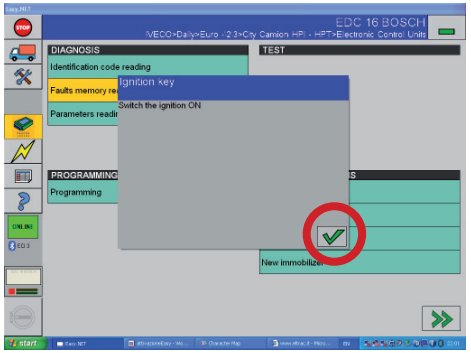
The basis diagnosis is simulated and it is possible to read some information about the electronic system under test.



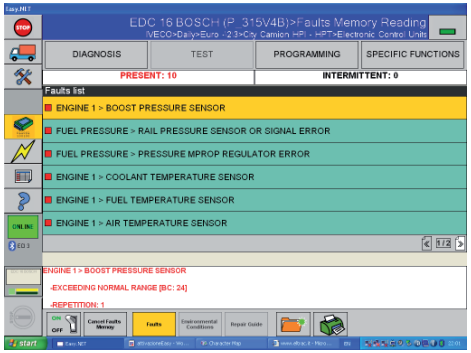
1. to access the Read Faults Memory environment select the item **Faults Memory Reading** from the list Diagnosis and then press the NAVIGATION button FORWARD



2. E.A.SY. system presents a pop-up window where to select the automatic or the manual activation of the ignition key; select the required mode; the key BUTTON is disabled



3. confirm the new message by pressing the TICK icon



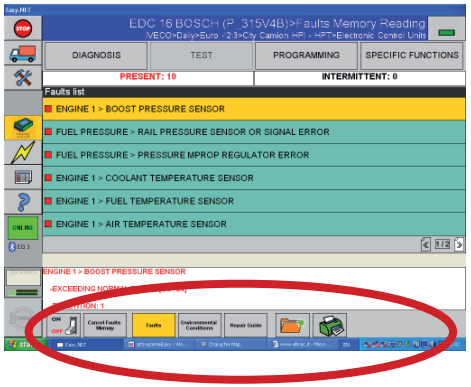
4. wait until the ECU is ready; the list and faults type occurred during the working are displayed

There are two types of failures:

- Failures present during the reading procedure (**red**)
- Intermittent failures not present during the reading operation but which occurred at least once before (**black**)

Detail of Buttons area of the *Faults Memory* area

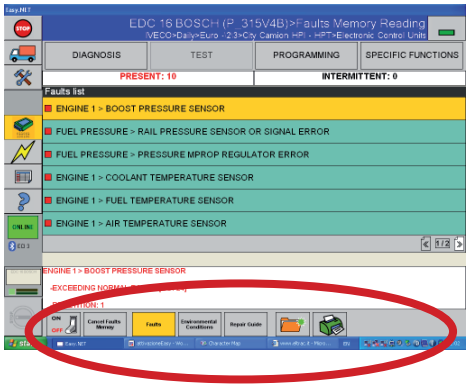
New icons appear in the window Read Faults Memory for accessing specific functions:



ON LINE Mode
Faults Memory Reading icons

	**ON key** the communication between the system and the ECU is active: it performs again the Faults Reading; it updates the ECU communication select the button to interrupt the reading
	**OFF key** the communication with the ECU has been interrupted select the button to start again the electronic system reading
	**CANCEL FAULTS MEMORY key** it cancels the faults selected in the list; it is possible to cancel a fault at a time; the cancel operation will be effective when you confirm it by pressing the TICK icon displayed in the next pop-up-window
	**FAULTS key** it allows you to access the Faults environment; it can be yellow (the faults list is displayed) or gray (environment Faults disabled)

>>



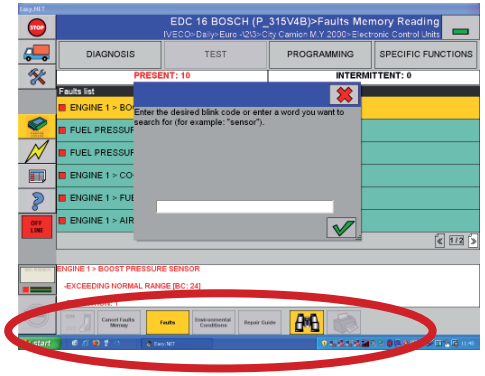
ON LINE Mode
Faults Memory Reading icons

ENVIRONMENTAL CONDITIONS key
active when the communication with the ECU has been interrupted
this is used to examine environmental conditions when the failure occurred.
it can be gray (default status) or yellow (when selected)

REPAIR GUIDE key
active when the communication with the ECU has been interrupted
it gives an analysis of the fault selected from the list; in particular other information (blink code, failure code and fault mode) is available
it can be gray (default status) or yellow (when selected)

REPORT key
it allows you to save the report of carried out operations
cfr. Report environment > button DIAGNOSIS REPORT

PRINT key
it allows you to print the displayed window



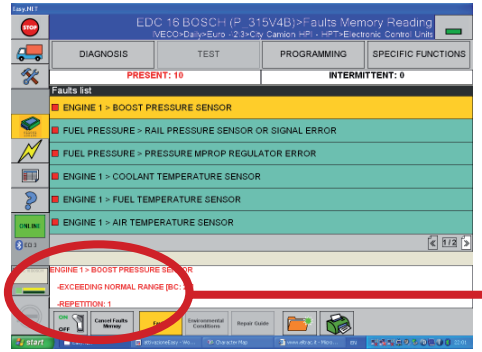
OFF LINE Mode
Faults Memory Reading icons

BLINK CODE SEARCH key
appears only if the communication with the ECU interrupted is (under OFF LINE Mode)
recognize the fault where blink code or required word appear

To go from one function to another (faults, environmental conditions, troubleshooting) select the corresponding button.

Operations like Read and Cancel Faults Memory are very important: they are automatically stored and need the vehicle acceptance.

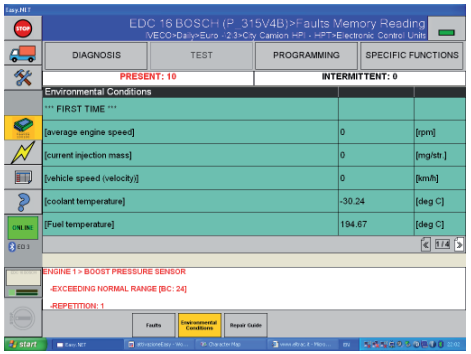
How to get information about a fault



1. interrupt the communication with the ECU (button ON/OFF) and select an item from the faults list: the fault is described in the below blank area; in particular the following information is available:

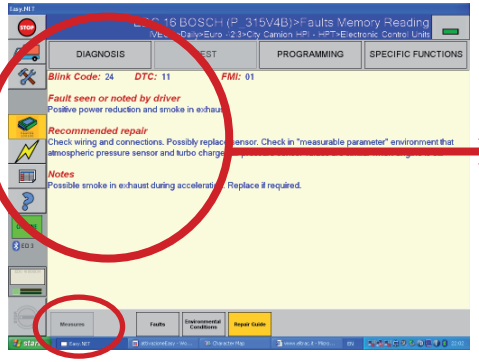
- the fault
- the signal type
- the repetition type

the button FAULTS appears on yellow background because it is selected



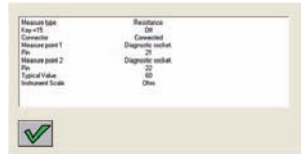
2. select the button ENVIRONMENTAL CONDITIONS

it examines the present environmental conditions at time of the fault



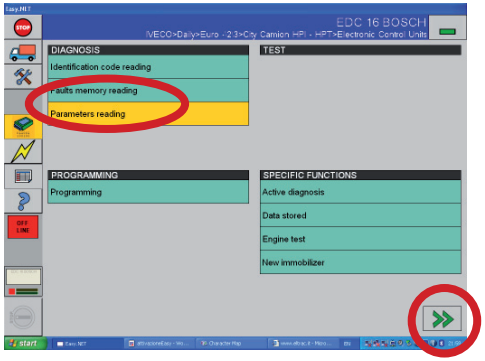
3. select the REPAIR GUIDE button; the following information is available:

- the blink code
- the failure code (DTC)
- the failure mode (FMI)

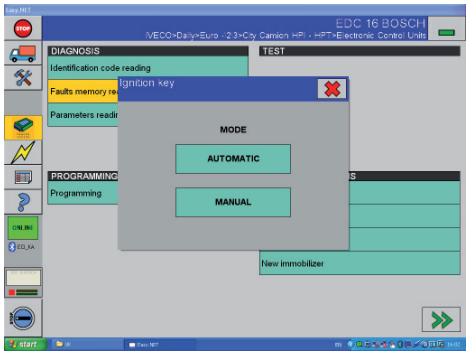


appears a new icon, the MEASURES key

Measures	MEASURES key the Measurements pop-up window opens with a list of possible measurements and the relevant operating suggestions

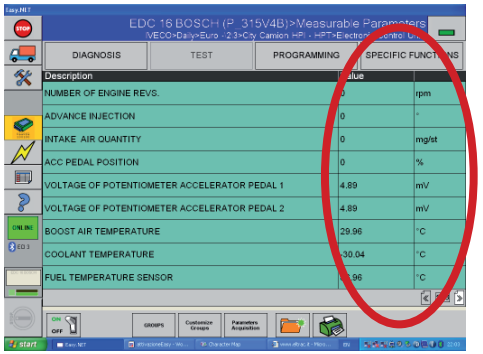


1. to access the Parameters Reading environment select the item **Parameters Reading** from the Diagnosis List and then press the NAVIGATION button FORWARD



2. E.A.SY. system presents a pop-up window where to select the automatic or the manual activation of the ignition key; select the required mode; the KEY button is disabled

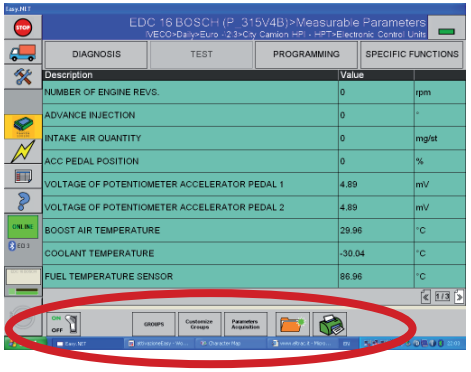
pay close attention to the displayed messages and wait until the ECU is ready



3. the read parameters are shown and the values assumed

Detail of parameters buttons area

New icons appears on the window Parameters Reading for accessing specific functions:

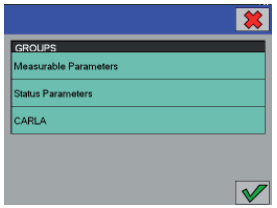


ON key
the communication between the system and the ECU is active: select the button to interrupt the reading

OFF key
the communication with the ECU has been interrupted; select the button to start again the electronic system reading

GROUPS key
it opens the GROUP window: two parameters type are displayed

- measurable parameter
- status parameters
- …



to access a group select it from the list (shown in yellow)

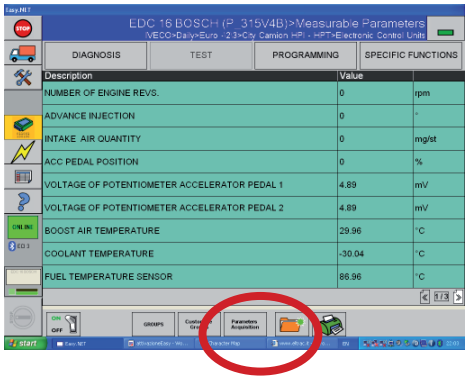
CUSTOMIZE GROUPS key
it allows you to create new customized parameters, identified by the desired parameters

PARAMETERS ACQUISITION key
it allows to record the trend in time of the measurable parameters

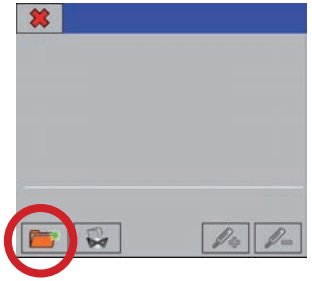
REPORT key
it allows you to save the report of carried out operations

PRINT key
it allows you to print the displayed window

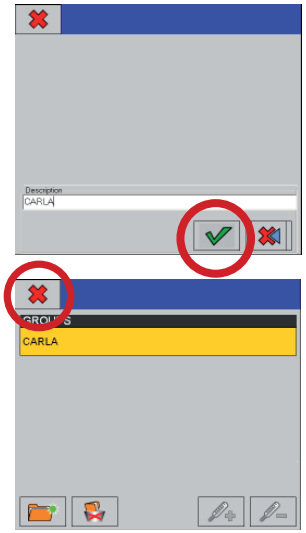
Button customize groups



1. select the button CUSTOMIZE GROUPS; a new window appears; select the button NEW FOLDER

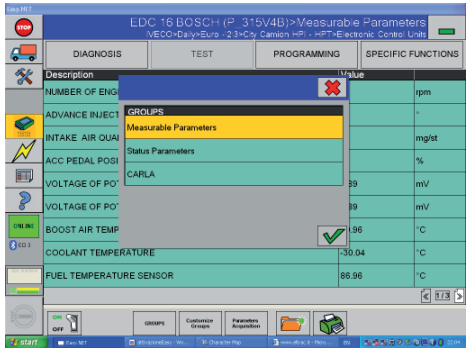


see detail CUSTOMIZE GROUP *icons*

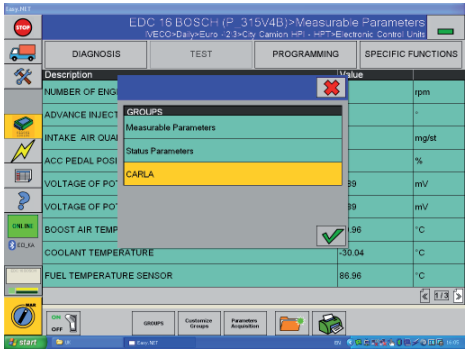


2. to describe the group you want to create; confirm by pressing the TICK icon, the GROUPS window appears and in the list the name of the created group appears; the new group is empty

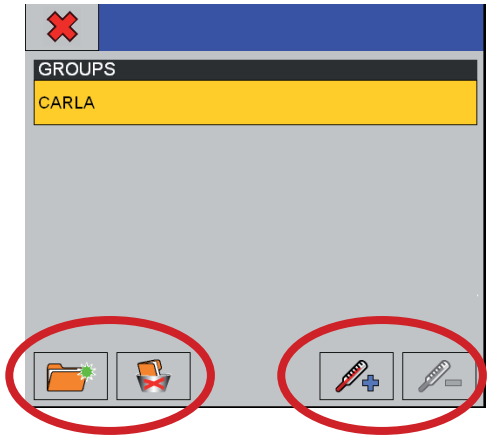
3. select the CROSS icon



4. select the button GROUP; select a group and the desired parameters (a multiple selection is possible)



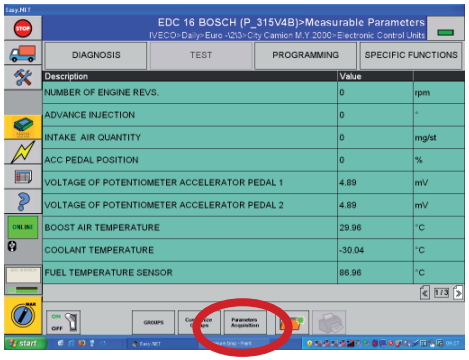
5. return to the button CUSTOMIZE GROUPS, select the just created group; the button ADD PARAMETER is enabled, select it; the system add to the group the chosen parameter



detail CUSTOMIZE GROUP *icons*

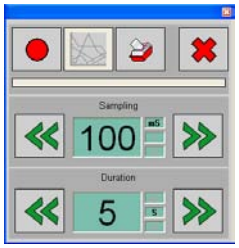
	NEW FOLDER **key** it allows you to create a new parameters group
	CANCEL GROUP **key** it cancels the selected group from the list it can be disabled (default) or enabled (if the group to be cancelled is selected)
	ADD PARAMETERS **key** it allows you to add in the created group one or more parameters, which have been previously selected from the other group it can be disabled (default) or enabled (if the parameters to be added are selected)
	CANCEL PARAMETERS **key** it allows you to cancel from the created group one or more parameters, which have been previously selected it can be disabled (default) or enabled (if the parameters to be cancelled are selected)

Appendix PARAMETER ACQUISITION key

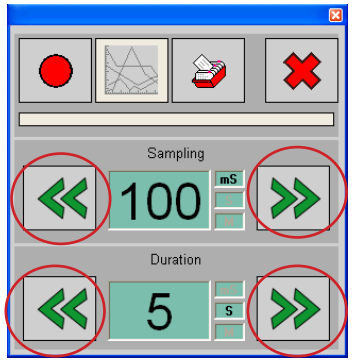


the key is only active under on line mode

1. select the PARAMETERS ACQUISITION key; the window *Store Parameter* opens



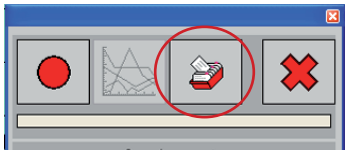
window *Store Parameter*



2. select the sample time by using the arrows on the *Sampling* active area

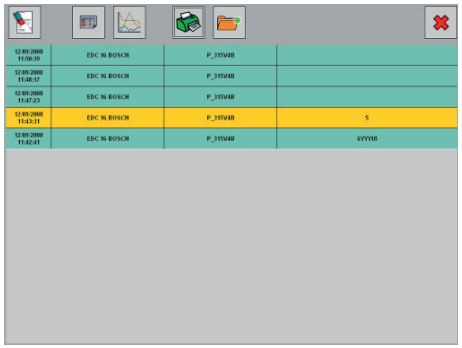
3. select the duration of registration by using the ARROWS key on the active area *Duration*

4. select the key START/STOP to start the registration (a new window open *Notes* where you can add a comment)
5. close the *Notes* window, the registration starts
6. wait for the end of registration procedure (it is also possible to interrupt the registration, by using the STOP key)



7. select the ARCHIVE key: the *Archive* window open showing the list of available registration in the archive

Archive window

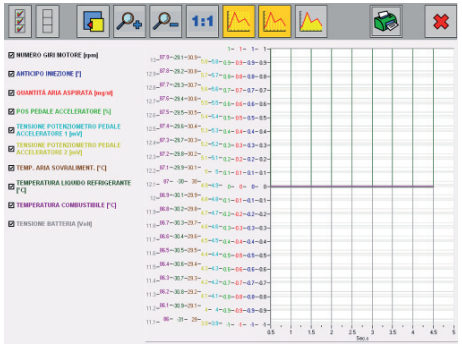


1. from the *Archive* windows, select a registration; it is possible:

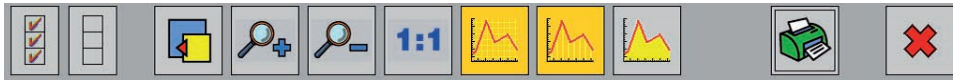
1	2	3	4	5	6

- to cancel it (CANCEL key, 1)
- to read data (REPORT key, 2)
- to show data (SHOW key, 3, opens the *Data Reading* window)
- to print data (PRINT key, 4)
- to save data in text format (SAVE AS key, 5)
- to go back (CROSS key, 6)

Data Reading window



2. from the *Archive* window, select a registration and the SHOW key; the *Data Reading* window opens; it is possible:



1	2	3	4	5	6	7	8	9	10	11

- to select all parameters (FAST SELECTION key, key 1)
- deselect all parameters (FAST DESELECTION key, key 2)
- to show the diagram with full-screen (key 3)
- increase, reduce or to bring back to the original display the time range (x-axle, seconds) (key 4, 5, 6)
- to display tables (horizontal or vertical, key 7, 8)
- to colour display the area indicated by the diagram (key 9)
- print (key 10)
- to go back (key 11)