User manual developer mode v8.0.0



### 7.2.4 Automatic series recognition

### Preconditions



► The automatic series recognition must have been set up: See Chapter 6.2.2.2

There is a corresponding valid series in the project directory.
 The appropriate processes for the series must be stored in the

corresponding series directory.

1. Have the automatic series recognition

selected / set up, the diagnostic application automatically checks which vehicle is connected via the OBD connector when it starts. The appropriate control unit list is then displayed.

	Bau	eihe		Status	8
AYENNE (E1)				0	
1 / Boxster / Cayman (9×7)				0	
ANAMERA (G1)				0	
1 / Boxster / Cayman (9x6)				0	
11 (GT) / Carrera GT				0	
11 / Boxster / Cayman (9x7)				~	



If no series could be recognized ..:

Start the diagnostic application in the basic system by manually selecting the relevant series.

### 7.2.5 Optional: Selection of the VIT to be loaded

When will this option be offered?



If you have selected an ODX project that has data from several vehicle models, you have to select the vehicle model from the VIT (Vehicle Info Table) in a further step (similar to the series selection). In this step you will also be offered a drop-down menu from which you must select the model.

Once you have selected the model, the diagnostic application starts with the data of this model.

### PORSCHE

# 8 Operation

The general operation of the diagnostic application is described below. Each sub-chapter deals with a function group of the diagnostic application. It describes how you use the individual function groups and what actions you can carry out within a function group.

Note on view mode:



In chapter 8.1.3 there is a special treatment for the view mode. Restrictions apply to this mode, which affect the operation described in Chapter 8. These are listed in a table and must be observed when operating the application.



Note on operation:

How you can adapt the interface to your needs and which restrictions / deviations apply to the operating behavior when groupings are displayed is explained in Chapter 9.

## 8.1 Control unit list / control unit overview

This chapter describes how you can display the control units installed in the vehicle using a control unit search in a control unit overview.

The basis is an existing ODX project in which the ECU-specific data is stored. The system must check whether a project control unit is installed in the vehicle and which variant it is.

After a user action, a control unit search is first carried out by the diagnostic application. The list of all or selected control units and their status is then displayed in the control unit overview.

When searching for control units, an alternative installation of control units (control unit variants which, depending on the version, can be connected via CAN, K-line, etc.) is automatically recognized.

### 8.1.1 Action-specific buttons in this function group

Control d	Control devices - overview						
button	Label	Icon	description				
F8	All with FSP		By pressing the <f8> key, all control units that have a fault memory entry are selected.</f8>				

### 8.1.2 Process with vehicle communication

1. After the application has started successfully, the list of control devices for the respective ODX project is displayed in a control device list.





You have two options for selecting control units:



HeadUnit KLSM(Kombilenkstockschalte) Kombiinstrument

Speichern Filter Löschen Fag-Funkt



### Variant 2: Selection of all control devices

5. Would you like a control unit search for all o<u>f the</u>m Control devices, press the <F12> key without having selected a control device.

> The system now checks which control units or selected control units of the project can be addressed.

Steulerg Es wurd	e kein St	euergerät ausgewählt.					100	
ÜЬо	reicht	Envoiterte Identifikationen Fohloropoioher	Istwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	703	
DTC	Status	Steuergerät		DSN	T	Teilenummer		
		ACC(adaptive Cruise Control)						
		Airbag						
		Anhaenger						
		Audioverstaerker						
		BCM Hinten						
		BCM_Vorne						
		BKE(Bedien_und_Klimaeinheit)						
		DME(digitale Motorelectronik)						
		EPB(Parkbremse)						
		Gateway						
		Getriebesteueurung						
		HeadUnit						
		KLSM(Kombilenkstockschalte)				<ul> <li></li> </ul>		
		Kombiinstrument						

### Optional display of a note



Display of actions:

After the control unit search, a message can be displayed depending on the data stored for the vehicle to be tested / serviced. This informs you about further actions or provides you with further information for the current vehicle.

6. Example of an optional note (A).

Note the note and confirm it with <F12> (B).



 $\downarrow$  Next, see next page

### PORSCHE

### Display of search results



The list of addressable control units is then displayed in the control unit overview. Depending on which selection variant you have chosen, the display is similar to that shown in step 7 or step 8.



### Note on representation



Control units for which no variant is recognized are identified by of the in columns status marked. The data of the basic variant is displayed for the control units marked in this way.

Control units that have a fault memory entry are identified by a - Icon in the column DTC marked.  If communication with a control unit cannot be established, this is shown in the list indicated by dashes after the name of the control unit (A). These control units are grayed out and cannot be selected any further.

> Subcomponents of control units (so-called ECU subcomponents) are shown indented under the respective control unit (B). You can work with these subcomponents in the same way as with the regular control units (see also additional information below).

Anthese weveen more all of Validation efficient he ist beended. Steuergeräk(o) eusewählen un steuergerät ACC(adaptive Cruise Control) Arbeg A2.1 Anhaenger underverstaanher CM Finten CM Finten	di über das Menü die Reverte Consense Antoningenee	gewünschte Funktion / Stelfglinder Prüfunger 000012	auxwählen. Coolerung Angeseungen Teilenu 97061821303 77P0907383A	Wanung Irve
Considering     Considering     Constraints     Constrain		Shelgin dor     Profiles     DSN	Codierang Anyassangen 57061821303 7P0907383A	Wartung Dres trandsetzung Dres
Steurorene       Steurorene      Steuroren      ACC(adaptive Cruise Control)      Aribag A2.1  Anhaenger      Godiverstaanker      CM Finten      CM Vorne      XE(Bedler, und _Klimaeinheit)		DSN DSN	Programme (m)         Trailern           7P0907383A         7P0907383A           -         -           -         -           -         -           -         -	ummer
Stouergerät ACC(adaptive Cruise Control) Arbeg. 22.1 Indeventaerker Odf Frieten CM, Vorne KE(Bedler, und , Klimaeinheit)		DSN 000012 - -	Teilen: 97061821303 7P0907383A - - -	ummer
ACC(adaptive Cruise Centrol) Airbeg, A2. 1 Anhaenger Undioverstaarker CoM Hinten CM, Vorne KE(bedier, und , Klimaeinheit)		- 000012 - - -	- 97061821303 7P0907383A - -	
Airbeg A2.1 Anhaenger Udioverstaerker CM Hinten CM, Vorne KE(Bedlen, und _Xilmaeinheit)		000012 - - -	97061821303 7P0907383A - -	
Anhaenger udioverstaerker CM Hinten CM_Vorne KE(Bedien_und_Kilmaeinheit)		•	7P0907383A - -	
udioverstaerker CM Hinten ICM_Vorne KE(Bedien_und_KilmaeInheit)			- -	
CM Hinten CM_Vorne KE(Bedien_und_Klimaeinheit)			•	
CM_Vorne KE(Bedien_und_Klimaeinheit)				
KE(Bedien_und_Klimaeinheit)				
			-	
SDI 6.1 V8 Sauger EU5		C200		
Parkbremse_a6	000005			
CAN/CAN-Gateway A2		Alpha2	97061811500	
Komponentenschutz			-	
Batteriezustand		-	-	
DC/DC-Wandler			-	
Generator	B			
	CANCENCE Concernence of the conc	CANCAN-Gateway A2 Komponentenschutz Batteriezustand DC/DC-Wander Generator	CANCENCAN-Gateway A2 Alpha2 CANCAN-Gateway A2 Alpha2 CANCAN-Gateway A2 Alpha2 Example a constraint of the constraint of	AND/ENEL 28 00000 9/0618 (3901 CANCAN-Gateway A2 Apha2 970618 (3901 Komponentenschutz Batterietzustand DC/DC-Wandler Generator Besterie

Representation of sub-components:

If a higher-level control unit has sub-components and you select the higher-level control unit and switch to another function group or function, all sub-components are implicitly selected as well.

However, if you select a sub-component or several sub-components and switch to another function group or function, the further action is only carried out for this selection.

### Example:

You select the control unit Gateway and switch to another function group. In addition to the main control unitGateway The following sub-components are then also displayed in this function group:

Battery condition, Main fuse box, Intelligent battery sensor, electrical energy management (eEM)

However, you only have the subcomponent Intelligent battery sensor selected and change to another function group, only this element is made available for a further action in this function group.

### Proceed further

10. Now select those control units from the list for which you would like to receive further information.

If you would like to deselect a selected control device, click again on the corresponding line (A).

The complete selection can be canceled again by pressing the <F6> key (B).

DTC         Status         Steuergerät         DSN           ACC(adaptive Cruite Control)         -         -           Distribug.A2.1         000012         \$70618	Teilenummer
ACC(adaptive Cruise Control)	
Allbag_A2.1 000012 970610	21202
Anhaenger 700007	21303
Audioverstaerker -	
BCM Hinten	
BCM_Vorne -	
BKE(Bedien_und_Klimaeinheit) -	
SDI 6.1 V8 Sauger EU5         C200	
Parkbremse_a6 970618	10901
CANICAN-Gateway A2 Alpha2 970619	11500
Komponentenschutz	

Notes on the selection of function groups

Function groups can be selected:

- i
- If you have selected at least one control unit or a sub-component, all function groups are available to you.
- If you have not made an explicit selection, only the protocol services function group can be selected. All other function groups are grayed out and cannot be selected.

Notes on the selection of all control units with error memories

11. Would you like to select all control units that have a Have an entry in the error memory, press the <F8> key.



### 8.1.3 Process without vehicle communication (special treatment in view mode)

If the diagnosis is carried out in view mode, there is no communication with the vehicle via a VCI. The variant detection normally carried out in the control unit search is no longer necessary due to the lack of vehicle communication.

In order to still get access to the data of the respective control unit variant, you have to select it in the control unit list. Proceed as follows.

Variant 1: Selection of a number of control units

1. Click in the column for the respective control device Control unit (A) and select one for each control unit from a drop-down menu Control unit variant from (B).

> If you would like to see the basic variant for the respective control unit, select the first / top entry in the drop-down menu.

The complete selection can be canceled again by pressing the <F6> key.

iteuerger	äte-List	e:						a.
iteuergei	ät(e) au	ıswählen und mit [F12] z	ur Steuergeräte-Suche	N.				
Übers	licht	Erweiterte Identifikatione	n Fehlerspeicher	lstwerte Schalteingänge	Stellglieder	Codierung Anpassungen	Wartung Instandsetzung	Progra
DTC	Status		Steuergerät			1	Teilenummer	
		ACC3						
		Airbag		_				
		Airbag	2					
		Airbag_A1.0	$\sim$ $-$					-
_		Airbag_A2.0	ີ້ 🚯					
		Airbag_A2.1	Ŭ					
		Unprogrammiertes_Airl	ag_SG					
		EPB(Parkbremse)						
		Catoway						
		Getriebesteueurung						
		HeadUnit						
		KLSM(Kombilenkstock	chalte)					
		Kombiinstrument						

G1\_12\_06 ase 2.5.0 (ODX 12.6) TO D 2. Then press the <F12> key. DTC Status ACC3 Anhaenger Audioverstae BCM Hinten BCM\_Vome BKE(Bedien\_und\_Klimaeinheit) DME(digitale Motorele EPB(Parkbremse) Cateway Getriebesteueurung HeadUnit KLSM(Kombilenkstockschalte Kombiinstrument Speichern Fog-Funkt Ŷ 8 





#### Variant 2: Selection of all control devices G1\_12\_06 View-Modus Diagnose-SW / Release 2.5.0 (ODX 12.6) ♀●● D▼ 4. If, on the other hand, you would like to teuergeräte-Liste: have the basic variant displayed for all Steuergerät(e) auswählen und mit [F12] zur Steuergeräte-Suche control devices, do not select any control device. DTC Status Steuergerä ACC(adaptive Cruise Control) Airbag Then press the <F12> key. Anhaenger Audioverst BCM Hinter BCM\_Vorne BKE(Bedien\_und\_Klimaeinheit) DME(digitale Motor EPB(Parkbremse) Gateway Getriebesteueurung HeadUnit KLSM/Kombilenkstockschalte Kombiinstrument Speichen 7 C) A

5. The control units are displayed in the basic variant.



6. The functions described in Section 8.2 ff are then available to you, with the following restrictions:

### Limitations:

Since no VCI is connected, no control unit communication is established. The following restrictions during operation must therefore be observed:



- All fault memories are displayed in the fault memory function group. Since every control unit has an entry in the error memory, all control units are selected by pressing the <F8> key in the control unit overview.
- In the actual values / switching inputs function group, default values are displayed instead of real actual values.
- In function groups for which services can be sent via an input, no response from the control unit is displayed in the response field.

### PORSCHE

### 8.2 Extended identifications

In the Extended Identifications function group, you have the option of displaying additional identifications for one or more control units. This chapter describes how you can display the extended identifications and change the values of the extended identifications.

### 8.2.1 Action-specific buttons

Extende	Extended identifications						
button	Label	Icon	description				
F8	To write		The identifications for selected control units are written by pressing the <f8> key.</f8>				

### 8.2.2 Display of the extended identifications

1. Display the list of installed control units and select the desired control units:

► See chapter 8.1

2. Select the function group in the menu bar Extended identifications.

> The extended identifications for the selected control units are displayed in a list.



### 8.2.3 Changing and writing the extended identifications

1. Display the extended identifications: See chapter 8.2.2.



### Note and tip

3. If the value entry is incorrect, because z. B. the format of the value is incorrect, this is indicated by the

Icon in the column Changed is displayed and the original value is entered again in the value field.

Observation	Erweiterte	iterte Echleressisher Istwerte Stellglieder				Wartung	
Charlenn	Identifikationen	Penteropeiener	Schalteingänge	Prüfungen	Anpassungen	Instandsetz	ing "Proj
Steuergerä	it	1	Wert	Einheit	Geändert		
	Standar	dSoftwarePlattform:	Version Number 6		385875972		
	Standar	dSoftwarePlattform:	SSP Ident 7		💡 ungültiger Wert		
	Standar	dSoftwarePlattform	VendodD 7		n		
	Standar	dSoftwarePlattform:	Version Number 7		2 12999		
StandardSoftwarePla			SSP Ident 8	2 12999			
	Standar	dSoftwarePlattform:	2 12999				
	Standar	dSoftwarePlattform:	8 12999				
	Standar	dSoftwarePlattform:	2 12999				
	Standar	dSoftwarePlattform:	8 12999				
	Standar	dSoftwarePlattform:	Version Number 9		\$ 12999		
	Standar	dSoftwarePlattform:	SSP Ident 10		2 12999		
	Standar	dSoftwarePlattform:	VendorID 10		P 12999		
			10 10 10 10 10		A	<b></b>	



Restoring the original value:

If you want to undo your entry, you have two options:



- They carry the original value of the identification back in Value field. The identification by the icon next to the The value field is retained.
- You select the overview function group, select the desired control unit again and display the list of extended identifications again by selecting the extended identifications function group. All value changes that you have made will be discarded.

### Proceed further

4. After you have changed the values of the identifications, press the <F8> key to write the changed values.

Übersicht	Erweiterte Identifikatione	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzi	ung Prog
Steuerge	erät	J	dentifikation		Wert	Einheit	Geändert
	Stand	ardSoftwarePlattform:	385875972				
	Stand	ardSoftwarePlattform:	SSP Ident 7		💡 ungültiger Wert		
	Stand	ardSoftwarePlattform:	VendorID 7		0		
	Stand	ardSoftwarePlattform:	Version Number 7		8 12999		
StandardSoftwarePlattform			SSP Ident 8		8 12999		
StandardSoftwarePlattform: VendorID 8			VendorID 8		8 12999		
StandardSoftwarePlattform			Version Number 8		8 12999		
	Stand	ardSoftwarePlattform:	8 12999				
	Stand	ardSoftwarePlattform:	VendorID 9		8 12999		
	Stand	ardSoftwarePlattform:	Version Number 9		8 12999		
	Stand	ardSoftwarePlattform:	SSP Ident 10		P 12999		
	Stand	ardSoftwarePlattform:	VendorID 10		P 12999		

### After writing

5. If a value for an identification has not been written successfully, this will be done by the icor in the column Changed displayed.

> If the message text in the information area is not completely legible due to the lack of space, you can view it by clicking on Details (B) display.





Details of the error description:

The values are checked in part - e.g. B. in the case of texts that are too long - only when the identifications are written. In the information area, the information about the reason why the data could not be written is displayed behind the display of the permitted input value.

The information area is currently only updated after the selection of the identification value marked with an error icon has been changed.



Example: If an identification value with an error has already been selected, the error description is not displayed directly. Only after this line has been deselected (for example by selecting another entry) and selected again will the reason for the error be displayed in the info area.

Some values of the extended identifications are not written in the current state of the control unit display, although no problems are displayed. The reason for this is that the control unit responded positively to a value request, but did not write the value. The cause can here z. B. in a flash memory problem of the control unit.

There are also identifications, the value of which is determined by the runtime system. This is e.g. B. the case with some dates. The date can be changed, but a different value (e.g. the current date) is written.

## 8.3 Fault memory

This chapter describes how you can display the fault memories of a number of control units. It is also described how you can delete individual fault memory contents of a control unit and how you can display the environmental data for a fault memory entry or several fault memory entries.

### 8.3.1 Action-specific buttons

Fault me	emory		
button	Label	Icon	description
F8	All FSP Lo.	<b>G</b>	This button is displayed if there are error memory entries and you have not made a selection in the working screen of the function group. All error memory entries are deleted by pressing the <f8> key. A query by the system then gets a confirmation from the user.</f8>
F8	Single FSP Lo.	<b>E</b>	This button is displayed if there are error memory entries and you have made at least one selection in the working screen of the function group. A previously selected fault memory is deleted by pressing the <f8> key. A query by the system then obtains confirmation from the user.</f8>
Decision	question		
button	Label	Icon	description
F11	no	$\approx$	By pressing the <f11> key, you cancel an action with a query (e.g. an error memory should not be deleted as originally specified). The <f11> key shown only occurs in combination with the <f12> key shown in the next line.</f12></f11></f11>
F12	Yes	Ø	By pressing the <f12> key, you confirm an action with a query (e.g. error memory should be deleted). The <f12> key shown only occurs in combination with the <f11> key shown in the previous line.</f11></f12></f12>

### 8.3.2 Icons

Display of a fault	memory entry Icon
Description	
	The following error images are not represented by an icon:
	Priority 1: There is an error that has a major impact on vehicle availability. The vehicle is then no longer ready to drive.
	Priority 2: There is an error that requires a direct visit to the workshop.
	Priority 3: There is an error that does not immediately oblige you to visit the workshop, but can be linked to a service appointment.
	Priority 4: There is an error that leads to a recommendation for action before starting the journey. Vehicle availability may be limited.
	Priority 5: There is an error that does not affect vehicle availability or there is an error that is not relevant for repairing the system for customer service. However, the display of the error by the icon is intended to support you in troubleshooting or error analysis in customer service.
	Task: Advertisement with informational character. This icon indicates defects that represent wear and tear. Priority 6: There is an error that affects the wear and tear of the vehicle or individual components and is therefore relevant to customer service.
()	Task: This icon symbolizes a general note. Priority 7: Note has an influence on the comfort function, but has no influence on the availability of the vehicle and is not relevant for a repair of the system in customer service.
	Task: This icon symbolizes a general note. Priority 8: General Notice
9	Task: This icon symbolizes a note for development purposes and quality assurance. Priority 9: Notes for development purposes and quality assurance.

### 8.3.3 Unknown error codes

If an error code occurs that is not data in ODX, it is still displayed by the diagnostic application and as an? Unknown error code ?? marked.

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### 8.3.4 Display of the error memory

Options for displaying the fault memory:

You have various options for displaying the error memory.

If you would like t<u>o d</u>isplay all control units with fault memory entries, proceed as follows:

► From the control unit list or control unit overview:

- Press the <F7> key (- Icon). T<sup>R2</sup> vehicle-wide functions screen (F7) is called up.
- Select the entry in the list of vehicle-wide functions (F7) Read all fault memories and delete them if necessary

► From the control unit overview:

- Press the <F8> key (- Icon). Alteontrol units are marked with fault memory entries.
- Call up the function group Erro<mark>r memory.</mark>

If you only want to display the fault memory entry f<u>or individ</u>ual control units, proceed as follows.

- Go to the control unit overview.
- Select the desired control devices. Control units that have a fault memory entry are indicated by an icon in the Column DTC marked.
- Call up the function group Error memory. This way

is described below.

se 7.0.0 / 5.0.0 (ODX 14.33) 🝸 ● ● D▼

1. Display the list of installed control units and select the desired control units:

G1\_14\_33

► See chapter 8.1.

2. Select the function group Error memory in the menu bar. An error memory list of the control unit is displayed.

The severity or priority of the error is indicated by different traffic light symbols (see Section 8.3.2).

If an error memory is active, this is indicated by the icon (B).

ehlerspeicher-Anzeige: Mit [F8] ALLE oder ausg Über Steuergerät 9 N/CAN-Gateway A2 1 Wählhebel 1 01D 9 1 CAN-Timeoutfeher er Batt ø IBS LIN Timeout **(**A) träge gesetz Steuergerät PSM - Ausfall mehrerer Radsensorer remse af 000015 000016 Steuergerät EPB - H-Brückenfehler ٩ 00001 Steuergerät EPB - Drehzahls sor Fehler - Links 8 C

If an error memory entry is present but inactive, this is indicated by the ?? Icon **D**isplayed.



The fault memory list is updated cyclically. As a result, individual error memories can change the activity status.

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7.0.0/5.0.0 / ODX

B

14.33) Y O D

### 8.3.5 Display of environmental data

1. Select the fault memory function <u>group and display</u> the fault memory content:

1 14 33

Wit [F8] ALLE oder au Übersicht

Anzeige

► See chapter 8.3.4.

2. Mark the corresponding error code for which you would like to have the environmental data displayed (A).

If you would like to deselect a selected error code, click again in the corresponding line.

The complete selection can be canceled again by pressing the <F6> key.

Then press the <F12> (B) key.

3. You will then be shown the environmental data of the fault memory entry.



Steuergerät PSM - Ausfall mehrere

it EPB - D

A

CAN-Timeout Türsteuergerät Fahre

CAN-Timeoutfehler BCM vorne

CAN-Timeoutfehler Kom

ng EPB-Fur

9

ø

۲

0

9

C12013

C12016

C12018

4. Press the <F11> key to return to the error memory list.



### 8.3.6 Deletion of error memory entries

Different types of deletion:



- Delete all fault memories: If there are error memory entries and you have not made a selection, you have the option of deleting all error memory entries with <u>the</u> <F8> key.
- Delete individual fault memories: If there are fault memory entries and you have marked at least one line, the labeling and the function of the <F8> key change. You now have the option of only deleting the selected entries.

### Limitations:

The deletion of individual error memory entries is only carried out if the corresponding service has data. That means:

• If fault memory entries are selected from control unit variants for which a corresponding service has been entered, after pressing the <F8> key and subsequent positive confirmation of the query, each individual fault memory with the specified service is deleted.



- If only fault memory entries from control unit variants are selected for which this service is not available and the <F8> key is pressed to delete, a corresponding confirmation dialog follows and no service for erasing the fault memory is carried out.
- If fault memory entries are selected from control unit variants for which this service is only available for one control unit and the <F8> key is pressed to delete, a corresponding confirmation dialog follows. If this is confirmed, the service for deleting individual fault memories is only carried out for the control unit that has this service.

1. Select the fault memory function group and display the fault memory content:

► See chapter 8.3.4.

2. To delete an entry, first mark the corresponding error code.

If you would like to deselect a selected error code, click again

corresponding line.

The complete selection can be canceled again by pressing the <F6> key.

If you want to delete all fault memory entries of the displayed control units, do not make a selection.

Übersicht I	Enweiterte dentifikationen	Fehlerspeic	<sup>her</sup> s	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung
Steuergerät	Prio	Fehlercode	Aktiv		1	Beschreibung	
ektrisches nergiemanamgement (eEM	))			Keine Fehlerspe	eicher-Einträge ges	setzt.	
arkbremse_a6		000015	٩	Steuergerät PS	M - Ausfall mehrer	er Radsensoren	
		000016	٩	Steuergerät EP	B - H-Brückenfehle	r	
		000017	9	Steuergerät EP	B - Drehzahlsenso	r Fehler - Links	
		000036	٩	Steuergerät EP	B - Drehzahlsensor	r Fehler - Rechts	
		000040	٩	Steuergerät EP	B - Verkabelung Ef	PB-Funktionslampe (	Kombi) defekt
		C12013	۵	CAN.Timeout T	ürsteuergerät Fahr	er	
		C12016	٩	CAN-Timeoutfe	hler BCM vome		
~		C12018	٩	CAN-Timeoutfe	hler Kombiinstrume	ent	
	<u> </u>	C1201F	٩	CAN-Timeout G	Bateway		
	_	C12096	۵	CAN-Signalfehl	er Kombiinstrumen	t	

3. Then press the <F8> key.

Fehlerspeicher-Anzeige:	ikka Esklavassis	laas Einteline län						
Übersicht «	Enweiterte Identifikationen	Fehlerspeich	her s	lstwerte chalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	Progra
Steuergerät	Prio	Fehlercode	Aktiv		-	Beschreibung		
lektrisches Energiemanamgement (eEI	(I)			Keine Fehlersp	eicher-Einträge ges	etzt.		
Parkbremse_a6		000015	۵	Steuergerät PSM - Ausfall mehrerer Radsensoren				
		000016	٩	Steuergerät EP	B - H-Brückenfehle	r		
		000017	٩	Steuergerät EP	B - Drehzahlsenso	Fehler - Links		
		000036	٩	Steuergerät EP	B - Drehzahlsenso	Fehler - Rechts		
		000040	٩	Steuergerät EP	B - Verkabelung El	B-Funktionslampe (	Kombi) defekt	
		C12013	۵	CAN-Timeout T	ürsteuergerät Fahr	er		
		C12016	٩	CAN Timeeutfe	hler BCM verne			
		C12018	٩	CAN-Timeoutfe	hler Kombiinstrume	nt		
		C1201F	۵	CAN-Timeon	iateway			
		C12098	٨	CAN-Signalfehi	er Konstantering			•

- A selection appears in which you must confirm the deletion of the selected error memory entries (A). You have the following options (B):
  - Cancel the process with <F11>. You come back to the list of error codes. With <F12> you
  - confirm that you want to delete the error code.

		Fehlerspeiche	er Se						
Steuergerät	Prio	Fehlercode	Aktiv			Beschreibung			
elektrisches Energiemanamgement (eE	M)		1	Keine Fehlersp	eicher-Einträge ge	setzt.			
Parkbremse_a6		000015	9	Steuergerät PS	PSM - Ausfall mehrerer Radsensoren				
		000016	9	Steuergerät EP	B - H-Brückenfehle	er.			
		000017	٩	Steuergerät EP	B - Drehzahlsenso	r Fehler - Links			
		000036	9	Steuergerät EP	B - Drehzahlsenso	r Fehler - Rechts			
		000040	۵	Steuergerät EP	B - Verkabelung E	PB-Funktionslampe	(Kombi) defekt		
		C12013		CAN-Timeout T	ürsteuergerät Fah	rer			
		C12016	٩	CAN-Timeoutfe	hler BCM vome				
		C12018	9	CAN-Timeoutfe	hler Kombiinstrum	<sup>ent</sup> ®			
		C1201F	9	CAN-Timeout G	Sateway				
		C12096	8	CAN-Signalfehl	er Kombiinstrumer	*			

5. If you want to delete the error code, confirm the query by pressing the button <F12>. The colorited fault memory in

The selected fault memory is then deleted.

Error memory entries that could not be deleted are listed in the info area.

		Fehlerspeic	ter s		ign >			
Steuergerät	Prio	Fehlercode	Aktiv	Beschreibung				
elektrisches Energiemanamgement (eEM)				Keine Fehlerspeicher-Einträge gesetzt.				
Parkbremse_a6		000015	٩	Steuergerät PSM - Ausfall mehrerer Radsensoren				
		000016	٢	Steuergerät EPB - H-Brückenfehler				
		000017	٩	Steuergerät EPB - Drehzahlsensor Fehler - Links				
		000036	٩	Steuergerät EPB - Drehzahlsensor Fehler - Rechts				
		000040	٩	Steuergerät EPB - Verkabelung EPB-Funktionslampe (Kombi) defekt				
		C12013	۵	CAN-Timeout Türsteuergerät Fahrer				
		C12016	٩	CAN Timeeutfehler BCM verne				
		C12018	9	CAN-Timeoutfehler Kombiinstrument				
		C1201F	9	CAN-Timeout Gateway				
		C12096	8	CAN-Signalfehler Komblinstrument				

### After deleting



After deleting the error code, you will automatically be shown an updated list of the error codes (see next screenshot). Note:

If the conditions for the display of an error are still given, the case may arise that the error is displayed again after deletion due to the cyclical reading of the error memory.

6. Updated list of fault memories.





If an error occurs while deleting an error memory, the application will inform you about this in the information area.

### 8.4 Actual values / switching inputs

This chapter describes how you can display the actual values or switching inputs of control units. It describes how you can change the way the displayed values (current value, minimum, maximum) are displayed. It also describes how you can display the measured values graphically using the data logger.

### 8.4.1 Action-specific buttons in this function group

Actual val	ues / switching i	nputs / data l	ogger
button	Label	Icon	description
F3	Datalogger	M	Pressing the <f3> key calls up the data logger screen.</f3>
F3	To press	2	The diagrams of the data logger are printed out by pressing the <f3> key.</f3>
F8	begin	Ŵ	The data recording of the data logger is started by pressing the <f8> key.</f8>
F8	stop	Ŋ	By pressing the <f8> key, the data recording of the datalogger is stopped.</f8>
F8	value	<b>₽</b>	Pressing the <f8> key changes the display of the values to the current actual value.</f8>
F8	minimum	ł	Pressing the <f8> key changes the display of the values to the current minimum.</f8>
F8	maximum	-₩	Pressing the <f8> key changes the display of the values to the current maximum.</f8>

### 8.4.2 Display of measured values

1. Display the list of installed control units and select the desired control units:

► See chapter 8.1.

2. Select the function group in the menu bar Actual values / switching inputs.

> A list of the measured values and switching inputs of the selected control devices is displayed.



3. In the list, mark those measured values and switching inputs whose values you would like to have displayed.

If you would like to deselect a selected switching input, click again in the corresponding line.

The complete selection can be canceled again by pressing the <F6> key.



4. Then press the <F12> key.







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What does ?? minimum ?? mean in this case? or ?? maximum ???

Based on the physically delivered values of the respective addressed control unit, the following relationship applies:

- The minimum is either the smallest lexical value (for a character string), the smallest number (for a number) or FALSE (for Boolean values). The range of validity and reference value is the duration of the measurement initiated.
- The maximum is either the largest lexical value (for a character string), the largest number (for a number) or TRUE (for Boolean values). The range of validity and reference value is the duration of the measurement initiated.
- The value is the current lexical value (for a character string), the current number (for a number) or TRUE or FALSE (for Boolean values).

### Update of the values:

The value display of the elements ?? value ??, ?? minimum ?? or ?? maximum ?? is updated cyclically every 250 milliseconds.

Depending on the selected display type, the labeling of the Value column also changes to Value, minimum respectively. Maximum.



1



### 8.4.3 Different display types (representation of 1, 2, 3, 4 and more values)



Depending on the number of parameters to be displayed, the system automatically switches to an enlarged display type. The following figures show the behavior.







### 8.4.4 Datalogger

The graphical view of the data logger is an additional view for the pure number representation (see chapter 8.4.3) for measured values in the function group actual values / switching inputs. The data logger can display several measured values simultaneously in one or more measurement curves. The type of display is selected when the data logger is started. Using a marking cursor (marker), detailed values can be read off at the cursor position. The time and value axes are automatically scaled, and they can also be scaled manually. Measured values recorded by the data logger can be saved and later via the protocol selectionMeasurement protocol graphically displayed again.

This chapter describes how you can display measured data of actual values using a data logger. It also describes how you can change the display type of the measured values and thereby change the viewing area. Finally, it is described how you can save the data recorded by the data logger in a measured value protocol.

8.4.4.1 Call up the data logger and start recording

Maximum number of measurement curves:

Depending on the type of display, the following conditions apply to the maximum number of displayable measurement curves:



- All measured values in one diagram: 4 turns
- Individual diagrams below each other: 8 curves, whereby 4 curves are displayed simultaneously on one page.
- Two diagrams side by side: 8 curves, whereby 4 curves are displayed simultaneously on one page.

Note on color representation:



Do you have the type of representation All measured values in one diagramis selected, each measurement curve is displayed in its own color to differentiate between the measured values. In the control application, you have the option of assigning a specific color to each curve:

► See chapter 6.1.3.4.2

 Select the function group Actual Values / Switching Inputs in the menu bar and select the desired measured variables that you want to display graphically:
 ▶ See chapter 8.4.2 and chapter 8.4.3. 2. The parameters whose measured values you have selected are initially displayed in the work screen. Now select the Parameters that you want to be displayed graphically (A).

> Press the <F3> (B) key. In a selection window you are offered a selection option via the <F3> key with which you can select the type of Can choose diagram display. The following variants are available:

- All measured values in one diagram
- Individual diagrams among themselves
- Two charts side by side

In the example, the option Two charts side by side chosen.


4. The data of the selected parameters are now read from the control units and displayed graphically. If the right edge of the diagram is reached when inserting a measured value, the graph is shifted to the left by a certain percentage of the visible screen width.

Should the value of ?? Infinity ?? (infinitely) have been measured, this is not displayed in the data logger and is saved as ZERO in the measured value protocol.



Note on axis labeling / units:

- i
- The X-axis labeling is always the time. The time values are the seconds since the start of the measurement.
- The Y-axis labeling depends on the measured variable you have selected.

Display in the title line:



G1

Diagnose-SW / Release 2.5.0 (ODX 12.5)

As long as the recording is running in the data logger, a will appear on the right in the title line O - Icon displayed.



You have the following options:

Variant 1: Leaving the data logger with ongoing recording

5. You can exit the data logger while the recording is in progress in order to carry out actions in other function groups. The <F3> key becomes active and is named Datalogger labeled.
If you would like to call up the data logger from another function group, press the <F3> key (data logger).
Please note the instructions for adding new measured values to the measured value recording of the data logger:
▶ See chapter 8.4.4.2

Variant 2: stopping the recording

6. You can stop the recording of measured values within the data logger: See ► chapter 8.4.4.3

8.4.4.2 Behavior when adding new measured values to the measured value recording If you have left the data logger while the measured value is being recorded, the <F3> (data logger) key in the control bar becomes active.

If you want to add new measured values to the measured value recording, the following restrictions apply:

Behavior if the selection is not changed:Have you not

changed the measured value selection, ie

• you have not selected any additional measured values for the measured value recording or

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- i
- you have not deselected any existing measured values

and if you call up the data logger again by pressing the <F3> key, the currently running data logger is displayed again.

Behavior when changing the selection:

On the other hand, if you have changed the selection, e.g. through

- Adding new measured values to the current selection
- Selection of a different set of measured values for a different actual value

and if you call up the data logger again by pressing the <F3> key, the measured value recording of the old data logger is stopped and discarded. Instead, a new data logger is displayed with the new measured values of the current selection.

You have to explicitly start the recording of measured values again by pressing the <F8> (Start) key.

To start the recording within the datalogger:

See chapter 8.4.4.1



### 8.4.4.3 Stop recording

It can happen that the recording of the measured values is stopped by an action within another function group, e.g. within the programming function group.

You can recognize the stopped datalogger by the fact that ...



- . . . the measured value recording is not running
- ... theSTART / STOPKey <F8> the label BEGIN shows.

The following steps describe the case in which the data logger is recording measured values and has not already been automatically stopped by an action within another function group.

1. Call up the data logger regularly: See ► chapter 8.4.4.1

Or:

If you have previously exited the data logger with ongoing measured value recording and not changed the selection, press the <F3> key (data logger). Please also note the note in Section 8.4.4.2.



### 8.4.4.4 Action options / icons

To change the representation of the diagrams, various options are available that you can call up by pressing the respective key:

Icon	description
-f-	Set markers (see Section 8.4.4.5). By setting the marker in the diagram, the X and Y axis intercepts of the measurement curve are marked and the values of the curve are displayed at the marked point.
	Delete markers (see Section 8.4.4.6).
ជរា ជម	Auto scaling: The display range of the coordinate system is adapted to the value range of the curve.
¢	Scaling the x or y axis: The display area of the coordinate system is enlarged.
0	Scaling the x or y axis: The display range of the coordinate system is reduced.
0<)	Horizontal scrolling: The display area jumps to the value x = 0.
٥	Horizontal scrolling: The display area scrolls to the left.
বব	Horizontal scrolling: The display area scrolls quickly to the left.
00	Horizontal scrolling: Stop the scrolling process
D	Horizontal scrolling: The display area scrolls to the right.
DD	Horizontal scrolling: The display area scrolls quickly to the right.

Icon	description
DI	Horizontal scrolling: The display area jumps to the last recorded value.
	Scroll diagram: Scroll one diagram forward.
	Scroll diagram: Scroll back one diagram.

Table 6: Functions of the data logger

### 8.4.4.5 Set markers

You can set a marker to display the x and y values of a point on the curve.



If you have selected a representation in which several diagrams are displayed, the setting of the marker in one diagram is automatically transferred to all other diagrams at the same point (X-axis intercept).



2. Then mark a point on the curve (the x-Axis intercept is decisive here).

A marker can only be set in the visible x-axis segment.

		Sentancentgange	Prüfungen	Anpassungen	Instandsetzung	Frogn
		1				
				_		
		1				
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		<u> </u>				
		-				
18	·····	Į.	3.8		4 8	
Zoom Y-Act	150	Hortzonteles Scrollen	18	Zoom X-Achse	Diagramm	blättern

3. The x and y values of the intersection of the marker axis and the recorded curve are displayed as numerical values at the marker issued.

The X value (time) is displayed below, the Y value is displayed above.



### Move marker

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You can use the scroll keys to move the marker in the x direction. You have the following navigation options:

4	Marker is moved to the left (-x).
$\triangleright$	Marker is moved to the right (+ x).

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Setting and moving the marker in the case of several diagrams

4. Put the marker in one diagram (A), the x-position will be on the other diagrams transferred (B).

> If you then move the marker, it will be in all others Diagrams shifted by the same amount.



### Proceed further

5. To end the marker function, press the marker button again (symbolized by the icon). The marker remains in the measurement curve. You can then use the data logger as usual. Delete marker



### 8.4.4.6

i

You have the option of placing a marker ?? including all marker copies in other diagrams - to be deleted again. Proceed as follows.

1. Call up the data logger and press the marker button: See previous ► chapter 8.4.4.5

2. Press the delete marker button (symbolized by the <sup>□</sup>?? Icon).

All set markers are deleted.

G1_	_14_20				Diagnose-SW / F	Release 3.0.0 / 3.0.0	(ODX 14.20) 🕈	00 DV
lstv	verte/Schalteingänge Datal	ogger						
Mit	[F8] kann das Datalogging	für die ausgev	vählten Werte gesta	rtet oder gestoppt w	erden.			
	Übersicht de	Erweiterte entifikationen	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	Progra »
			(84	*0>				
						-		
٥	•							
0	•							
(90)								
CPULAE								
ATEWAY:								
2	a							
11								
- 1								
4		11	(1910)	2 s Time is sec	3.8		4 5	
	- 8	Zoom Y-Achse		Hortcontales Scrol	D DI	Zoom X-Achse	Disgram	m blättern
Er (	b ?	Drucken F3	Speichem F4	Tre Lastnar	Fisher Fisher		Protokolike Zurluck	

8.4.4.7 Store measured values temporarily

You have the option of temporarily saving the data recorded by the data logger for later evaluation.



### Precondition:

An ongoing recording of measured values must be stopped before being temporarily saved. Only then will the appropriateSave on computer-Button active.

Note on saving:

If you want to store the cached measurement log permanently on the PC / notebook / tester, you have to give it a defined name within the log type Measured value log save the general report management:



► See chapter 8.4.4.8

Note on viewing:

You can save saved and cached measurement logs by selecting the log type Measurement protocol call up the general report management again. The display then takes place within the data logger:

► See chapter 8.4.4.9

- 1. Call up the data logger and start the display of measured values by pressing the <F8> key:
  - ► See chapter 8.4.4.1.

2. To temporarily save the results of the current measurement recording, press <F4> key.



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#### 8.4.4.8 Finally save the current measurement protocol

Within the general report management you can finally save the temporarily saved measurement log (see chapter 8.4.4.7). The measured value log is zipped when it is saved.

1. Press the <F10> key. If the key cannot be selected, first navigate to one of the function groups (e.g. overview) and then press the <F10> key.

- SW / Release 3.0.0 / 3.0.0 (ODX 14.20) ♥ D ♥ G1 14 20 2. A key menu appears in which alteingänge Datalogger several entries are listed. Mit [F8] kann das Datalogging für die ausge Übersicht Fehler Progra Select the protocol type Measurement protocol. Arbeitsprotokol Fahrzeugauftrag Fahrzeugübergabeprotokol \_\_\_\_\_ DO O DO Drucken Start N 3
- 3. The list of measured value logs is displayed. The current or last created

The measured value protocol is the top priority.

If necessary, select the current measured value log by clicking in the corresponding line. If this is already marked, this step (A) is not necessary.

Enter a name. A name is already suggested to you in the name field. However, you can change this (B).

To view the cached measurement log under the name you have chosen to save, press the Save on computer-Button (C).



### 8.4.4.9 Call up and display saved measurement logs

Within the general report management, you can call up measured value logs that were generated using the data logger within the actual values / switching inputs function group (see Section 8.4).

Function reduction:

The data logger is used to display the stored measured value data, but in the form of a pure display unit. It is not possible to start a new measured value recording from the display of the measured value data. The <F8> key is therefore grayed out.

To record a new measured value curve: ► See chapter 8.4.4.1

Other possible actions:



Ĩ

With <F11> you come back to the general report management. You can also jump directly to one of the other function groups via the menu bar. You will then be shown the data of the control units that are currently in the selection.

You can print out the measured value report with <F3>: ► See chapter 8.4.4.10

1. Press the <F10> key.

If the key cannot be selected, first navigate to one of the function groups (e.g. overview) and then press the <F10> key.

2. A key menu appears in which several entries are listed.

Select the protocol type Measurement protocol.





4. The measured value curve (s) are displayed within a function-reduced data logger (see the introductory note in this chapter).

You can now in the logged data ...:

- ... use the scrolling and marking functions of the data logger or
- ... Print out the protocol via <F3> (you can find more information in the following chapter 8.4.4.10).



8.4.4.10 Print diagram (s) Note on the

print dialog:

In the V and P mode, the printout is made immediately via the standard printer of the operating system.

In E mode, the operating system dialog for selecting the printer and setting the printer properties is started first.

Notes on the output format:

The format of the printout is DIN A4 landscape.

As many diagrams are printed per sheet as there are diagrams displayed on the screen, i.e.:

- Do you have the type of representation All measured values in one diagram is selected, only one printout is made.
- If you have selected a display type in which the measured values are recorded in several diagrams, as many diagrams are printed out on one sheet as there are diagrams per screen page. The diagrams currently displayed on the screen are printed out. If you want to print diagrams that are displayed on a subsequent screen, you must first scroll to this page (or) before pressing the print button.

Only the diagram (consisting of markers - if available -, axis labels, units and the measurement curve) is printed out.

### Precondition:

You can ...:



- . . . print out the current measurement record directly. the Measured value recording must have been stopped beforehand (see chapter 8.4.4.3). Only then does the print button become active.
- . . . a cached or saved measurement log Call it up via the general report management and then display it within the data logger interface (see Section 8.4.4.9) and print it out.



	G1_14_20		Diagnose-SW / Release 3.0.0 / 3.0.0 (ODX 14.20 ) 🍸 🛡	• D <b>T</b>
1. To print out the diagrams, press the	Istwerte/Schalteingänge Datalog	ger		
<f3> key.</f3>	Mit [F8] kann das Datalogging fü	r die ausgewählten Werte gestartet oder gestoppt w	rerden.	
2	Übersicht - Fr Ident	ifikationen Fehlerspeicher Schalteingänge	Stellglieder Codierung Wartung Prüfungen Anpassungen Instandsetzung	⊃rogra ≫
		The in sector 2 minutes test The in sector 2 minutes test	the <u>Zero X kete</u> <u>Pogram ti</u>	9 s
	esc a state	a 🕑 🕈 a		

# 8.5 Actuators / tests

This chapter describes how you can display the actuators of a number of control units. It also describes how you can change the parameters of these actuators and how you can run test routines for individual control units.

### 8.5.1 Action-specific buttons in this function group

Actuato	rs / Tests butto	on	
	Label	Icon	description
F5	Readings	æ	By pressing the <f5> key, measured values can be selected in an additional selection screen, which are then also displayed in the result area of the actuators / routines.</f5>
F6	return	(Carl	By pressing the <f6> key, control of a selected actuator is returned to the corresponding control unit. The parameter of the actuator is then determined by the control unit.</f6>
F7	Freeze		The current routine is stopped by pressing the <f7> key. The routine is restarted by pressing the <f7> key again.</f7></f7>
F8	begin		By pressing the <f8> key, a previously selectedCheck routine started.</f8>
F8	Carry out		By pressing the <f8> key, a previously selectedActuator set.</f8>
F8	stop		A previously selected test routine is started by pressing the <f8> key.</f8>
F9	Reset	O.	The current values are reset to a standard value by pressing the <f9> key.</f9>

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### 8.5.2 Display of actuators / tests

1. Display the list of installed control units and select the desired control units:

► See chapter 8.1.

2. Select the function group in the menu bar Actuators / tests. A list of the control unit's actuators is displayed.

G1_14_20					Diagnose-SW / R	elease 3.0.0 / 3.0.0	(ODX 14.20) 🕈	D.
Liste der verfügba	ren Stellgliede	r und Routin	en:					
Stellglied oder Ro	utine auswähle	m, [F12] zun	n Starten.					
Übersicht	< En Ident	weiterte ifikationen	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	Progra >>
Steue	rgorät	-			Stollglieder			
elektrisches Energ (eEM)	iemanamgeme	en ECOS N	lessung	1				-
<u>.</u>		GW Abs	chaltung Standheiz	ung				
		GW Anz	eige Abschaltung S	tandheizung				
		GW Anz	eige Abschaltung S	teckdosen				
		GW Anz	eige Batteriediagno	50				
		GW Anz	eige Batterieladezu	stand				
		GW Anz	eige Generatordiag	nose				
		GW Anz	eige Klemme 30f au	18				
		GW Anz	eige Reduzierung Ir	nengebläse				
		GW Anz	eige Transportsteck	ker gesteckt				
		GW Klei	mme G1 schalten					
		GW Lee	nme G2 schalten rlaufdrehzahlanheb	ung				
esc ?			E 55			50 E10		



### 8.5.3 Changing parameters / calling test routines

1. Display the list of actuators and routines: See chapter 8.5.2.



3. Then press the <F12> key.



4. The available changeable values or test routines for the selected actuator are displayed in the upper area of the current screen.

#### Note:

The status of the routine execution may already be displayed in the results area when you call up the work screen.



Variant 1: Changing the parameter via a drop-down menu

5. If the test routine has fixed adjustable values, you can select the desired value from a menu by clicking on the corresponding value field.





6. The value is then entered in the value field of the test routine accepted.



Variant 2: Changing the parameter via manual input

7. If the value does not have any permanently adjustable values, you can change the value using a manual parameter input.

> To do this, click in the value field of the test routine and enter the desired value.

\$1_14_20				Diagnose-SW / F	Release 3.0.0 / 3.0.0	(ODX 14.20)	7 0 0 D
Stellglied GW Leerla Die Eingabe muss e	aufdrehzahlanhebung vo ine positive ganze Zahl	n elektrisches Energ sein.	iemanamgement (eE	M) ausgewählt.			
Übersicht	Erweiterte Identifikationen	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	Progra
		Parameter			Wort		Einheit
limer					0	5	-
eerlaufanhebung					LA Stufe 1		
		Ergebnisse			Wert		Einheit
							4
Ende Hille	Mallengter Mallengter	Speichern Mes	swerte Return	Austiin	en Result I	Protoskolike Zurisch	



If an actuator has no parameters, the value field cannot be selected.

3.0.0/3.0.0 (ODX 14.20) 🗑 🔍 D 🔻

Einheit

Zurück

ement (eEM) aus

LLA Stufe 1

Wert

Para

Ergebnisse

Speicher A 0

### Proceed further

G1\_14\_20 8. To start the test routine or to set ellglied GW Leerlaufdrehzahlanhebung von elektrisches Energ the parameter value, ie Eingabe muss eine positive ganze Zahl sein press the <F8> key. To stop the process again, ufanhehung press the <F8> key again.

### Note:

It can happen that the routine was already started when it was called. In this case, there is of course no need to start the routine. Furthermore, it can happen

that the routine is ended automatically. In this case, there is no need to stop the routine.

So make sure you know the status of the check routine. To do this, refer to the label on the <F8> key, which varies with the status.

9. The result of the action is shown in the lower area of the current screen.





### 8.5.4 Set actuators



Basically, there is no difference in operation when entering values for actuators and test routines. In the case of actuators, only other buttons are enabled in the control bar.

1. Enter the appropriate values for the respective parameters. For the various options for entering values, see Chapter 8.5.3.

2. Set the actuator by pressing the <F8> key. The action-specific buttons are only activated after the actuator has been set.

3. The additional possible actions are shown in the Control bar displayed.

The following additional keys are available:



Übersicht	Erweiterte Identifikationen	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzung	Prog
			Wert Ein		Einheit		
Timer	Timer				20	s	
Leerlaufanhebung				ι	LA Stufe 1		
		Ergebnisse			Wert	1	Einheit

• Freeze: If you press the <F7> key, the current position of the actuator is saved.

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### Reset: If you press the <F9> key, the actuator is reset to a standard value.

4. The result of setting the actuator is displayed in the lower area of the screen. In the information area, you will also be informed which action (Freeze, Reset, Return, Execute) the current result value relates to.





The <F8> key also remains active so that you can set the actuator again if you have changed an input parameter.

### 8.5.5 KWP2000LP functionality

If the selected actuator has a KWP2000LP communication protocol, the test sequence is carried out in a different way in the Actuators / Tests function group:

After you have selected an actuator and started the test routine with the <F8> key, you can use the <F12> key to call up the next function for this actuator and thereby work through the test sequence successively.



With sequential and selective actuator tests, you have the option of using a suitable key in a configuration file to determine whether ??:

- ?? a defined start of the actuator test is to take place via <F12> or automatically by the diagnostic application,
- ?? At the end of a sequential actuator test, a continue command should be automatically sent to the control unit by the diagnostic application or you have to send it manually via <F8>.

To set this feature:

► See chapter 6.3.1

### 8.5.6 Combined display of actual values and actuators / tests



You have the option of expanding the display of results in the work screen of the actuators / tests. In addition to the results of the actuator test or the routine execution, you can display the measured values of individual measured variables that have been stored for the corresponding actuator in the results area.

The additional measured values to be displayed must first be selected in an actual value screen with reduced functionality.

1. Press the <F5> key (measured values) on the work screen.

Stellgliedantsueurung wurde durch Steurgreit beendet. Das Stellglied kann mit [F8] gesetzt warden.     Stellgliedantsueurung wurde durch Steurgreit istweite Schalteingjing     Stellglieder Topparameter     Coderungen Intandisturung Intandisturung Intandisturung       Programeter     Listweite Schalteingjing     Stellglieder Topparameter     Coderungen Intandisturung Intandisturung       Programeter     Listweite Schalteingjing     Stellglieder Topparameter     Coderungen Intandisturung Intandisturung       Learlaufantebung     Listweite Intandisturung     Ergebnisse     Listweit Intandisturung     Eintent       CAN-Signalbeeinflussong     Listweit Intandisturung     Eintent	Steligileu Gaa Leenauluie	nzanannebung vor	elektrisches Energ	nemanangement (et	m) ausgewann.				Ξ.
Ubersicht         Resentatione         Fehlerspeicher         Istwarfe         Statiglieder         Codingen         Martingen         Martingen         Programme           Leefaufsindeung         Ferrare         20         -         4         -	Stellgliedansteuerung wu	rde durch Steuerger	rät beendet. Das Ste	ellglied kann mit [F8]	gesetzt werden.				-
Parameter         Wart         Encode           Timer         20         3           Leastandambeug         LLA Star 1         3           Ergebrisse         Wert         Ergebrisse           CAN-Signabeeinflussung         LLA Star 1         1	Übersicht	Erweiterte Identifikationen	Fehlerspeicher	lstwerte Schalteingänge	Stellglieder Prüfungen	Codierung Anpassungen	Wartung Instandsetzu	ung Proj	gra
Timer     20     s       Learlaufanhebung     LLA Stufe 1     Einheit       Ergebnisse     Wert     Einheit       CAN-Signabeeinflussung     LLA Stufe 1     Image: State 1			Parameter			Wort		Einheit	
Ecertaufanhebung         ULA Stufe 1         Ernet           Ergebnisse         Wert         Ernet           CAN-Signalbeeinflussung         LLA Stufe 1	Timer				:	20		s	
Ergebrisse Wert Einheit CAN-Signalbeeinflussung LLA Stufe 1	Leerlaufanhebung					LA Stufe 1			
LLA Stufe 1						Wert		Einheit	T
		m Annua a							
	CAN-Signalbeeinflussung	I	Ergeonisse		1	LA Stufe 1			

The following selection screen is visually identical to the screen for the actual values / switching inputs, but with some restrictions:

- Calling up another function group is prevented.
- The functionality of the actual values / switching inputs function group/will limited to the selection and deselection of measured variables.

2. All measured variables of the previously in the control unit List or control device overview selected control devices listed. For the / those previously in the function group <u>Actuators / tests selected</u> actuator / routine, individual measured variables are already pre-marked.

> Now click on the measured variables whose measured values are also displayed want to get.

Werte auswählen. Mit	(F12) Auswahl mer	en und zur vorberiger	n Ansicht zurückkehn	n (F11) - Rückkehr	ohne Auswahl			
	Enveiterte		Istwarte	Stellalieder	Codierung	Wartung		
Ubersicht	Identifikationer	1 Penierspeicher	Schalteingänge	Prüfungen	Anpassungen	Instandsetzung	PI	
Oteuergerä	it			Messyröße				
	BDM	Unterspannungszeitz	ähler 3					
	BATT	Batterieladezustand	(SOC_K20)					
	BAT	Batteriezustandsanz	eige (SOC für MMI-Ai	nzeige)	_			
	BATT	Alterung ladungsbez	ogen (SOH_Q)					
	BATT	Alterung leistungsbe	zogen (SOH_P)			•		
	BATT	Batterie-Innenwiders	tand aktuell			-		
	BATT	Batterie-Innenwiders	tand normiert			/		
	BATT	Entnehmbare Ladun	g Qe					
	BATT	Uoo (Gleichgewichts	-Ruhespannung)					
Komponentenschutz	Keine	Einträge gesetzt.						
elektrisches Energiema (eEM)	anamgement HIST	HIST Pehler StartSpannungsprädiktion Start Stopp						
	HIST	Ruhespannungsunter	rschreitung					
	HIST	Ruhestromüberschrei	ituna					



Preselected elements can only be deselected in E mode. This preselection cannot be deleted in P and V mode. However, you may be able to add further measured variables to this preselection.

3. Then press the <F12> key to accept the selection and return to the screen of the

Actuators / exams to arrive.

If you do not want to accept the selection, press the <F11> key. You will then also get to the screen of the Actuators / tests back, but

without displaying further measured values. Any selections made are included discarded.



The selection made is stored in a user-specific filter when you confirm with <F12>. This filter is retained even after the diagnostic application is terminated or after a new installation. So if you call up the same control unit again at a later point in time, you will? depending on which control units were selected in the control unit list and in the control unit overview - the last selections made are displayed again on the selection screen.

If you have selected fewer or different control devices in the control device overview, you will be offered either fewer or different selections.