



Connect the FPC-902 to the black 4 conductor plug located on the left side of the Series 5100 control. The following sequence of screens should occur.

```
AKKU      PASS
FLASH     PASS
EEPROM    PASS
RTC       PASS
CAN       PASS
```

```
FPC902
Version 3.00
Nov 11 2015
14:32 : 06
```

```
FPC902
Service STG >
Service STG Slave >
Flash-Programmer >
Service Sensor >
Setu
```

Press "OK"

```
Connect with STG ...
■■■■■■■■□□□□□□
```

```
Accept all parameter
from the STG?

Offline Yes
```

Press "OK"

```
Parameter download
from STG ...
■■■■■■■■□□□□□□
```

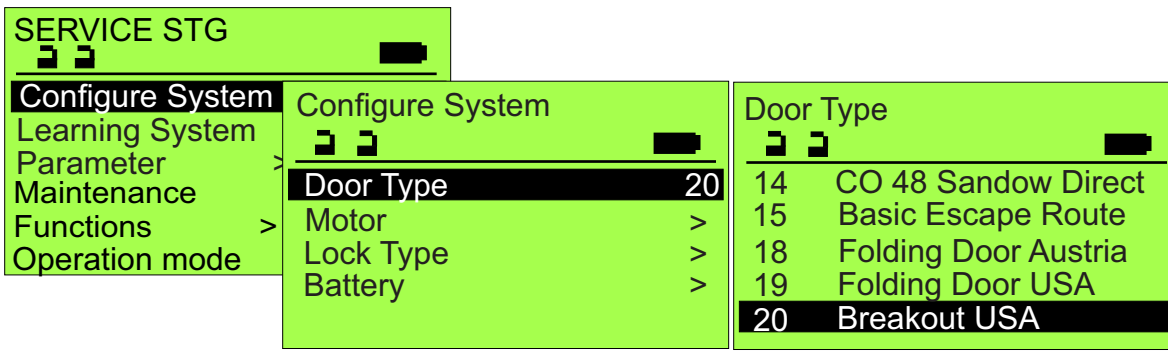
```
SYS20_UL V1.10
Break-out USA
Automatic
0 Errorless

Continue
```

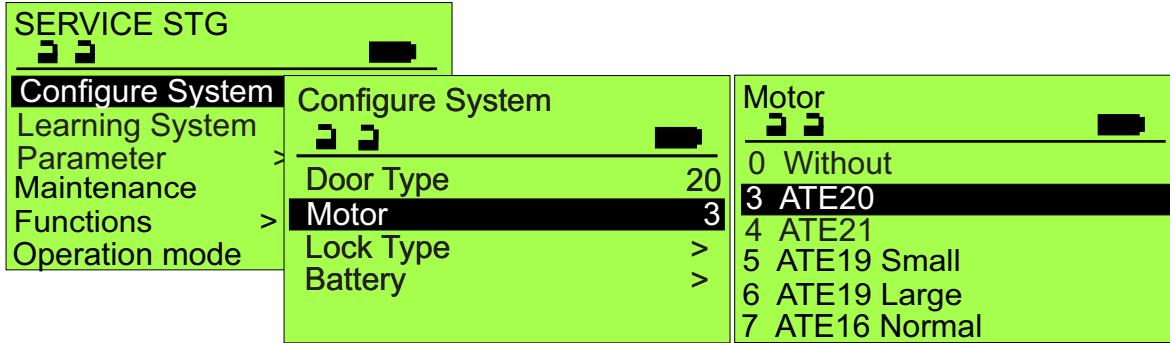
Press "OK"

```
SERVICE STG
Configure System >
Learning System >
Parameter >
Maintenance >
Functions >
Operation mode >
```

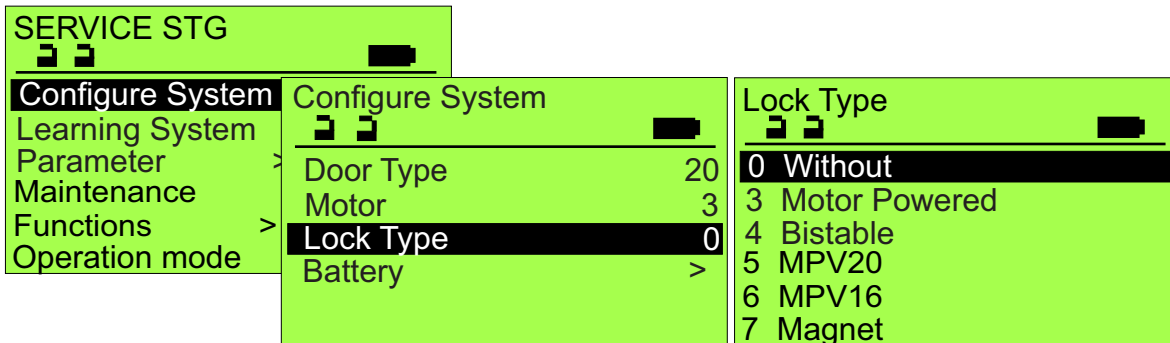
The screen sequences on the following pages start from this point and document the various adjustable parameters in the control. When at any of the screens shown below, the above screen can be accessed by pressing the "ESC" key one or more times.



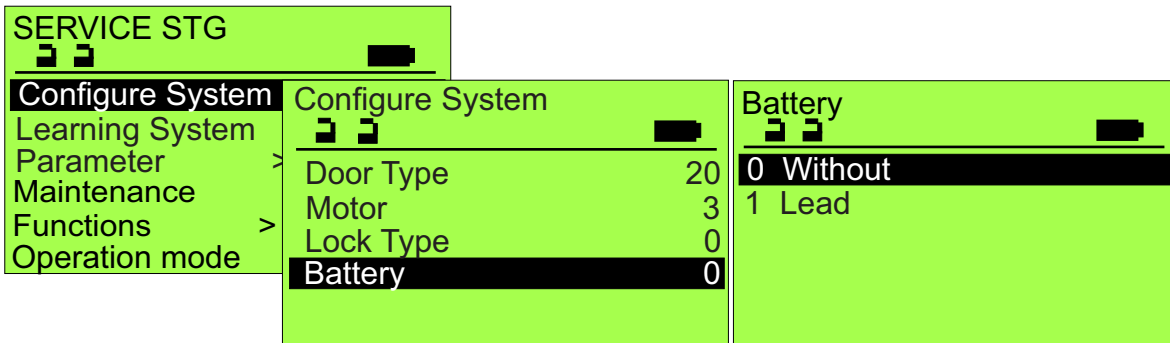
**Press
"OK"**



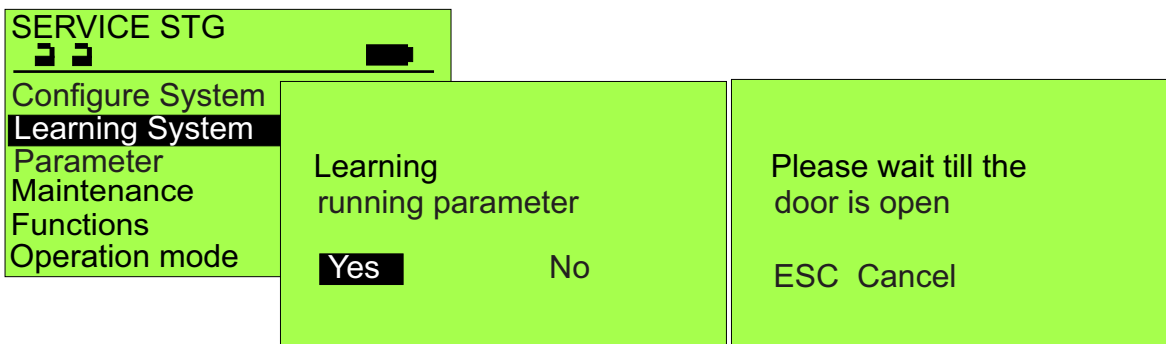
**Press
"OK"**



If Lock on-board will need set to (11)Fail-Secure or (12)Fail Safe. Press OK



Set to (1)Lead if Lead Acid Battery onboard. Press OK



Follow prompts for door calibration, typically 2 cycles & screen "Learning running param. completed". Learning Sensors select "No" & "Ok".

At this point, retrieve the "Parameter Sheet" found in the plastic sleeve attached to the inside of the removable cover to the unit. Proceed by confirming that all the Settings in the "Plant" columns have been completed.

SERVICE STG
 PARAMETER
 Driving
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

CLOSING SPEED
 24

The closing speed is limited to 1 foot per second max.

SERVICE STG
 PARAMETER
 Driving
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

OPENING SPEED
 36

SERVICE STG
 PARAMETER
 Driving
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

Open
 Acceleration 30
 Deceleration 35
 Creep Section 1

Acceleration and Deceleration: Higher value= faster cycle
 0= no creep section
 1= 2.5% of last travel
 40= 100% of travel
 Note: As Creep Section is increased, door speed is decreased.

SERVICE STG
 PARAMETER
 Driving
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

Close
 Acceleration 30
 Deceleration 30
 Creep Section 1
 Holding Force 5

0= no creep section
 1= 2.5% of last travel
 40= 100% of travel
 High Holding Force increases Motor Temp.
 Recommend not to exceed a setting of 20.
 Push to Actuate cancels Holding Force.

SERVICE STG
 PARAMETER
 Driving
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

Ramp
 Section 1
 Force 1

Section= Length of Ramp. 0= no ramp
 1= appr. 1.5" ramp
 40= appr. 4.75" ramp measured @ belt.
 Force & ramp should be kept to minimum for no obstruction during force & ramp.

During Ramp, Obstruction sensitivity is significantly reduced

SERVICE STG
 PARAMETER
 Driving
 DRIVING CYCLE
 Closing speed 20
 Opening speed 36
 Open >
 Close >
 Ramp >
 Seal >

Seal
 2

0= no seal
 1= appr. 4" seal
 40= appr. 12" seal
 Measured @ belt.
 Obstruction significantly reduced during Seal - keep to minimum.

SERVICE STG
 PARAMETER
 Driving
 TIME DELAY OPEN
 Time delay open 2
 Time delay Rem. Sw 20
 SSK Delay 0
 Reset with button 0

TIME DELAY OPEN
 2

0 thru 20 are in 1 sec. intervals;
 21 thru 40 are in 2 sec. intervals providing 60 sec. maximum delay. For compliance with ANSI A156.10, do not set less than 2.

SERVICE STG
 PARAMETER
 Driving
 TIME DELAY OPEN
 Time delay open 2
 Time delay Rem. Sw 20
 SSK Delay 0
 Reset with button 0

TIME DELAY REM. SW
 20

0 thru 20 are in 1 sec. intervals;
 21 thru 40 are in 2 sec. intervals providing 60 sec. maximum delay. SSK, Special Activation, & Time Delay Rem. Sw. all refer to control input terminals 11 & 12.

SERVICE STG
 PARAMETER
 Driving
 TIME DELAY OPEN
 Time delay open 2
 Time delay Rem. Sw 20
 SSK Delay 0
 Reset with button 0

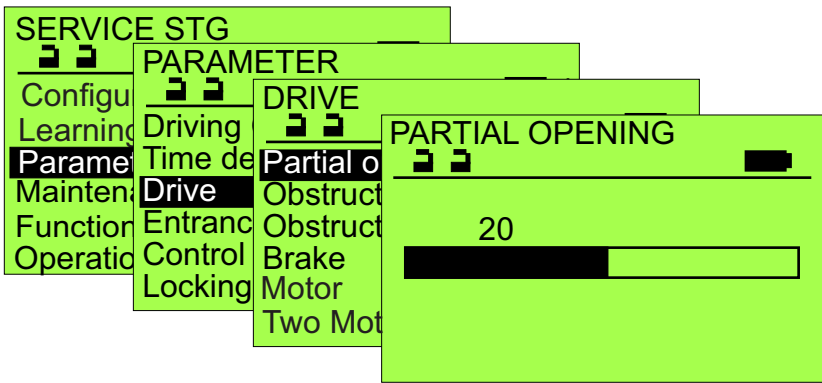
SSK Delay
 0

Delay before door starts opening from above inputs terminals 11 & 12..
 0= no delay
 40= 8 second delay
 SSK signal is only delayed if door is closed.

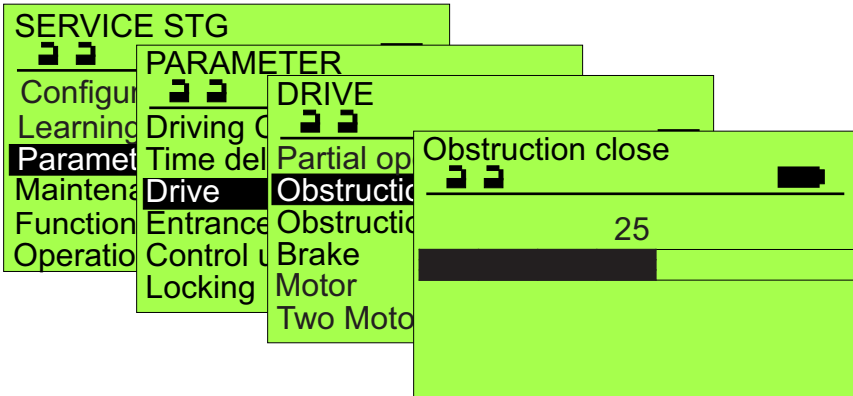
SERVICE STG
 PARAMETER
 Driving
 TIME DELAY OPEN
 Time delay open 2
 Time delay Rem. Sw 20
 SSK Delay 0
 Reset with button 0

Reset with button
 1 Disabled
 0 Enabled

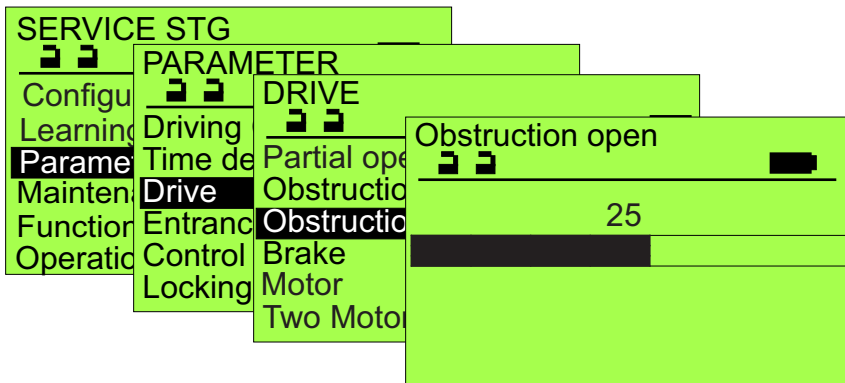
Enables early closing by sending same signal again during hold open. Disabled= no interruption Enabled= Hold time can be interrupted with a signal from AKI, AKA, & SSK.



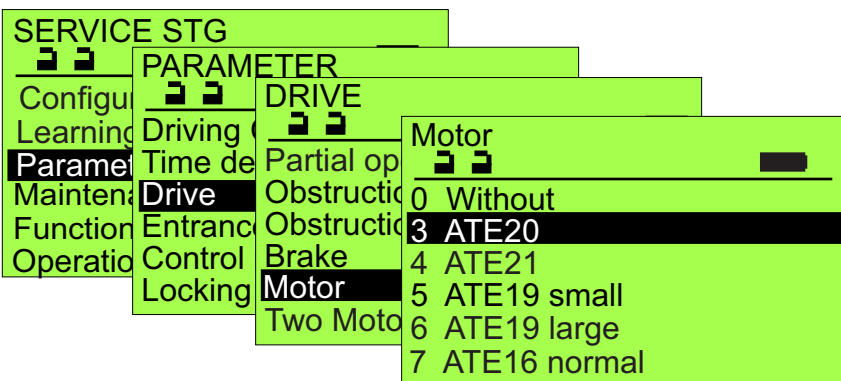
Reduced opening limits:
 0 = 8 inches (minimum);
 40 = 100% of opening.



If the door is reversing due to extraordinarily tight weather seals or extreme stack pressures, change from 0 to higher number.



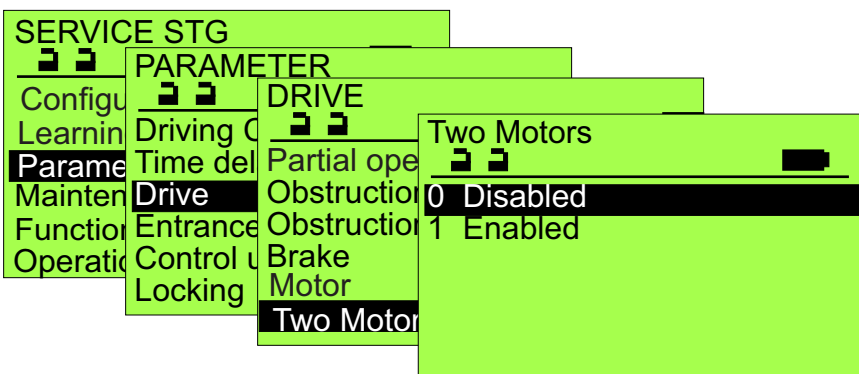
If the door is reversing due to extraordinarily tight weather seals or extreme stack pressures, change from 0 to higher number.



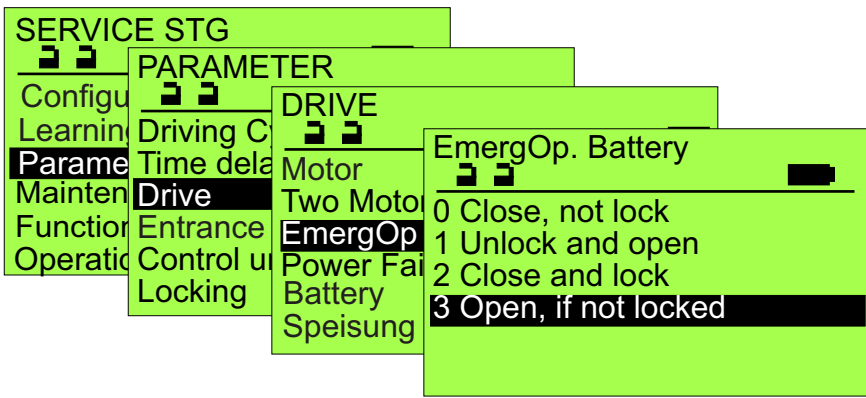
Note: Brake not available in North America

Definition of the Motor type being used.
 Automatic Identification with current System 20 Motor

If older unit (System 19) with small encoder, select " 6 ATE19 Large

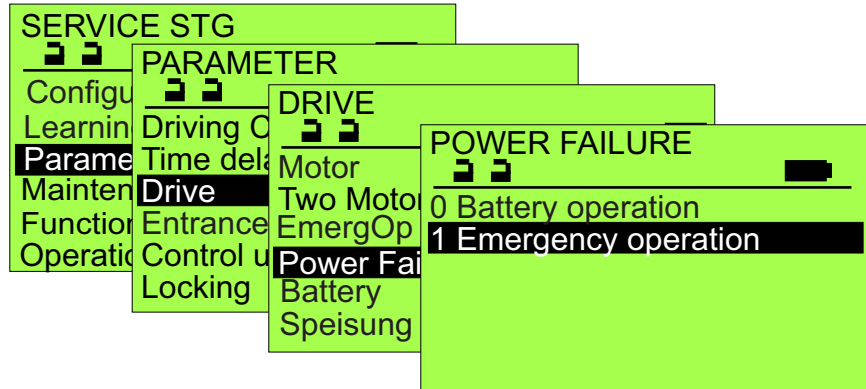


Normally, the second motor is automatically identified.



Determines Battery Operation

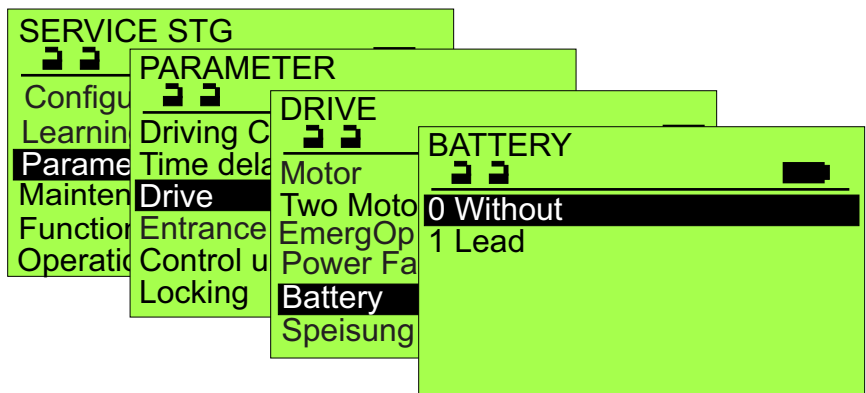
If "1 Emergency Operation" is selected in "POWER FAILURE" below, "EmergOp.Battery" will determine what function the door will do upon a power failure. After completion, the control will shut down.



Battery Operation is only possible with Lead Battery.

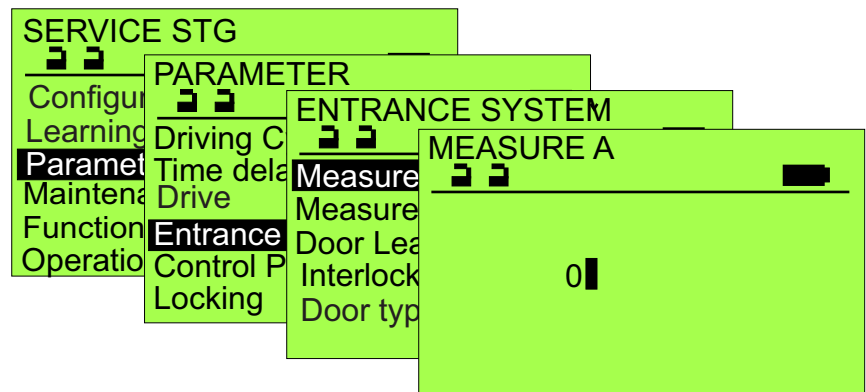
In case of low battery, upon a power failure, Emergency operation is immediately executed.

If "Lead is selected in "Battery" below, "0 Battery operation will maintain full door operation until battery is significantly discharged, then function selected in "EmergOp. Battery" is performed, followed by control shutting down.

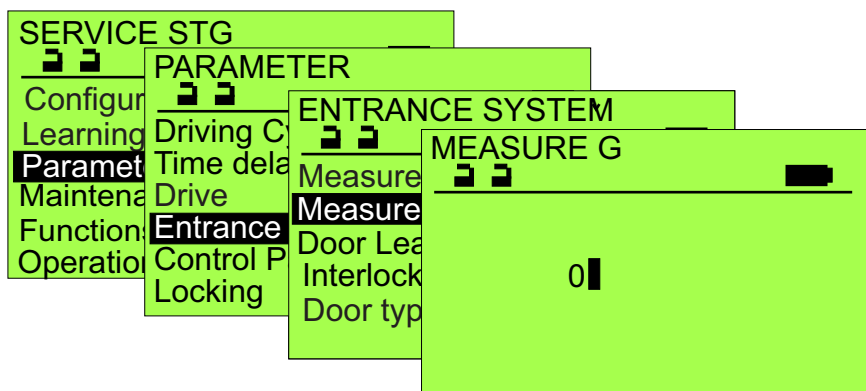


Automatically identified if battery connected prior to commissioning. If battery is added after commissioning, this parameter must be enabled manually. Additionally, the battery charge/monitor pcb, 9-51-00167, must be installed in the door control.

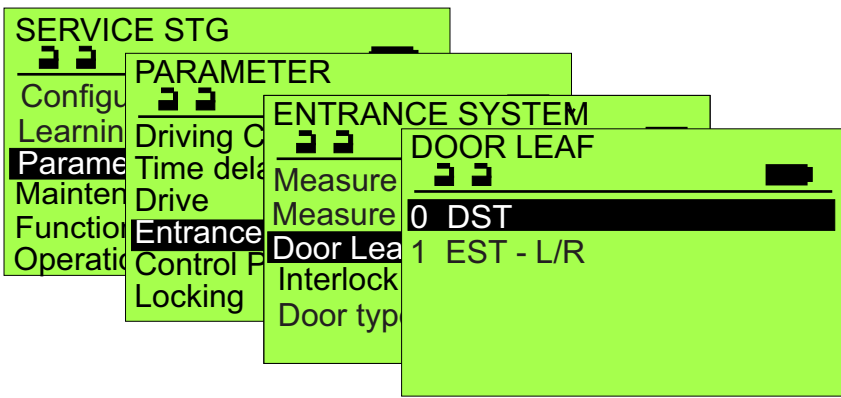
Note: "Speisung 24VDC" not used in North America.



Door Opening Width Measured in mm. 650.....2000 Default setting. Only compulsory for folding doors. In sliding door configurations, value is automatically set during calibration. For 4500 and FlipFlow, value should be set to "2000"

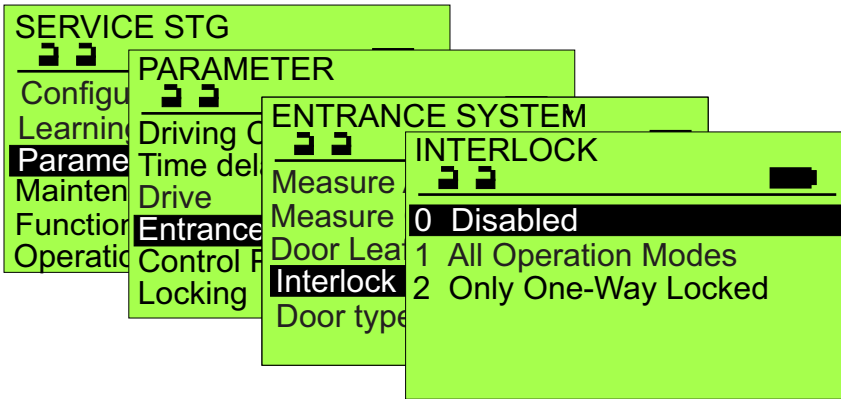


Door Opening Height Measured in mm. Not used yet.



Enables more accurate automatic setting of door cycle parameters, providing a smoother, more efficient door operation.

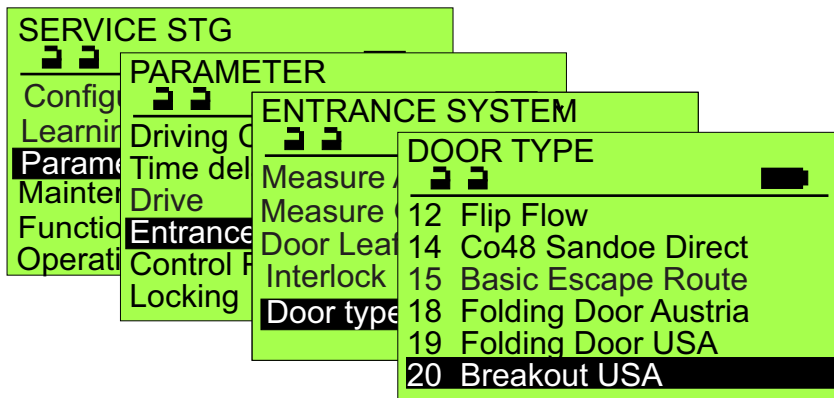
Supports calculation of door parameters.
 DST=Bi-parting Door D-STA,D-TSA
 EST-L/R=Single Slide Door Left/Right, E-STA, E-TSA



Requires a FEM-1.

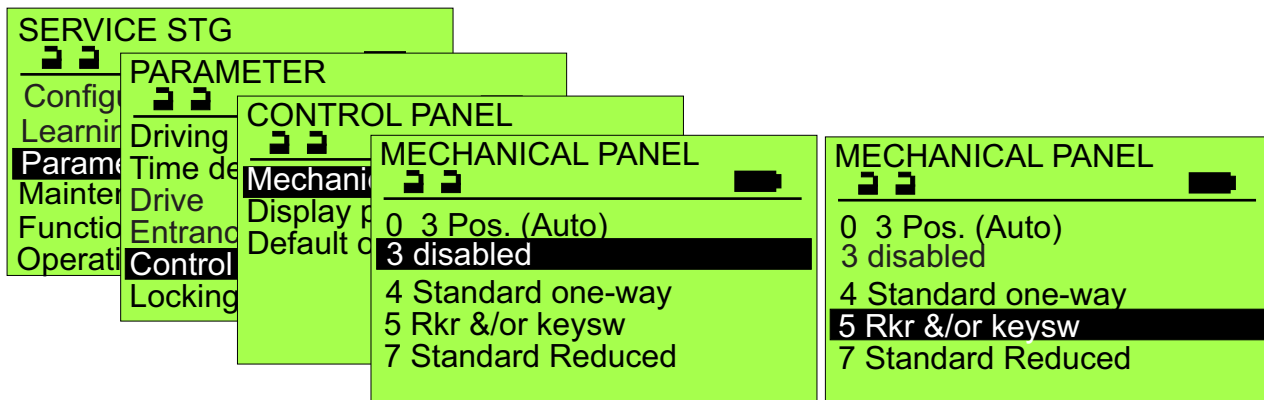
Direction detecting sensors are recommended to avoid nuisance open cycles (depending on the operating mode).

A SIS-signal during the closing cycle affects only the open door. The reduced opening width is supported. Refer to 5100 Installation Instructions for more detail..



NOTICE: A modification of door type causes a reset of the running parameters and sets certain parameters, such as AUX0-IN, to a predefined function.

Typically select "Break-out USA"; select "Ratchet" for Push-to-Open/Push-to-Close operation.



Typically select "disabled" unless one of the Rocker switch control panels has been connected. For proper door operation, Inputs AUX00_IN and AUX01_IN (parameter Input/Output / STG) must be properly enabled, and panel connected per diagram S5100Sys20MechanicalControlPanels.

SERVICE STG
 Configur Learning Mainten Function Operatio

PARAMETER
 Driving C Time dela Drive Entrance Control P Locking

CONTROL PANEL
 Mechan Display Default d

DISPLAY PANEL
 Language 3
 Keyboard 1
 Contrast BDE1 20
 Contrast BDE2 20
 Brightness BDE1 20
 Brightness BDE2 20

SELECT LANGUAGE
 0 DEUTSCH
 1 FRANCAIS
 2 ENGLISH
 3 ENGLISH US
 4 ESPANOL
 5 NEDERLANDS

SERVICE STG
 Configur Learning Mainten Function Operatio

PARAMETER
 Driving C Time dela Drive Entrance Control P Locking

CONTROL PANEL
 Mechan Display Default d

DISPLAY PANEL
 Language 3
 Keyboard 1
 Contrast BDE1 20
 Contrast BDE2 20
 Brightness BDE1 20
 Brightness BDE2 20

KEYBOARD
 0 Locked-Mode
 1 OFF-Mode

Typically select "OFF-Mode" unless using a Fail-Safe lock and it is to be locked when door is off.

SERVICE STG
 Configur Learning Mainten Function Operatio

PARAMETER
 Driving C Time dela Drive Entrance Control P Locking

CONTROL PANEL
 Mechan Display Default d

DISPLAY PANEL
 Language 3
 Keyboard 1
 Contrast BDE1 20
 Contrast BDE2 20
 Brightness BDE1 20
 Brightness BDE2 20

CONTRAST BDE1
 20

SERVICE STG
 Configur Learning Mainten Function Operatio

PARAMETER
 Driving C Time dela Drive Entrance Control P Locking

CONTROL PANEL
 Mechan Display Default d

DISPLAY PANEL
 Language 3
 Keyboard 1
 Contrast BDE1 20
 Contrast BDE2 20
 Brightness BDE1 20
 Brightness BDE2 20

CONTRAST BDE2
 20

SERVICE STG

PARAMETER

CONTROL PANEL

DISPLAY PANEL

BRIGHTNESS BDE1

Language	3
Keyboard	1
Contrast BDE1	20
Contrast BDE2	20
Brightness BDE1	20
Brightness BDE2	20

SERVICE STG

PARAMETER

CONTROL PANEL

DISPLAY PANEL

BRIGHTNESS BDE2

Language	3
Keyboard	1
Contrast BDE1	20
Contrast BDE2	20
Brightness BDE1	20
Brightness BDE2	20

SERVICE STG

PARAMETER

CONTROL PANEL

DISPLAY PANEL

TD BACKLITE

Keyboard	3
Contrast BDE1	1
Contrast BDE2	20
Brightness BDE1	20
Brightness BDE2	20
TD Backlit	10

When set to "0", the backlight is always off; 1-39 = seconds "on" time; 40 = backlight always "on".

SERVICE STG

PARAMETER

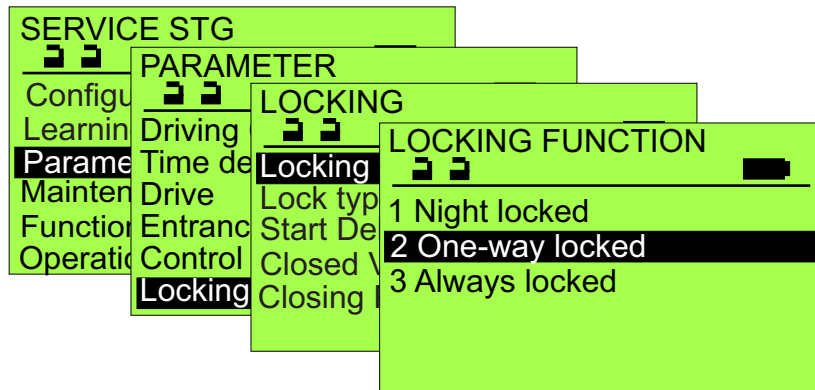
CONTROL PANEL

Default op. mode

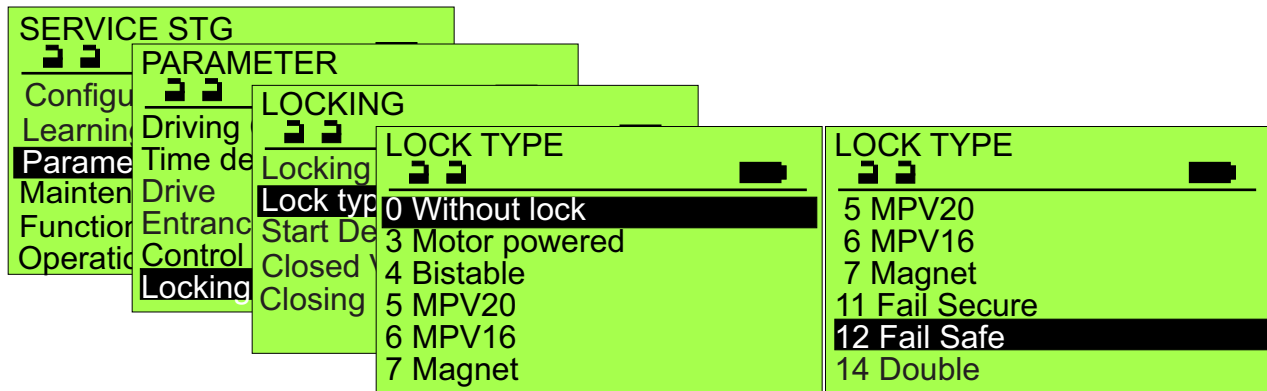
Mechanical Panel	3
Display panel	>
Default op. mode	0

0	Off
1	Locked
2	Automatic
3	Cont. Open
4	One-way

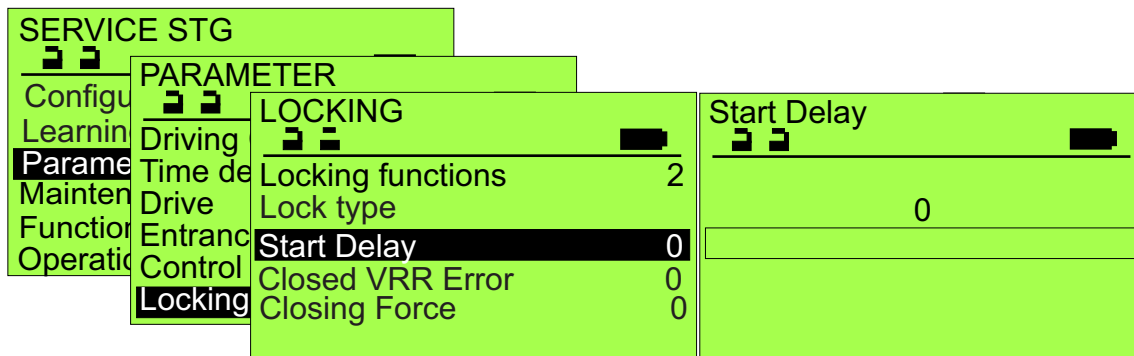
Determines the operating mode when there is no Display module connected or a Mechanical Panel configured.



“Night locked” is for use with “Fail-safe” autolocks, and door is to be locked when the door is “Locked”. Also see Control Panel / Display Panel / Keyboard parameter.

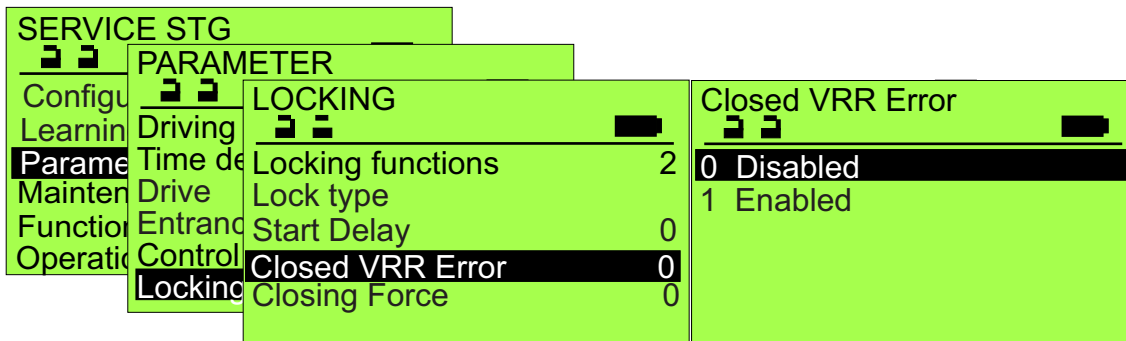


Typically select “Without lock”, “Fail secure”, or “Fail safe” for North American applications. Consult factory before connecting third party electric locks to the lock output of the door control.



Delay time until door opens after unlocking
 0=no delay
 40=8 second delay.

When electric locking is enabled, actuation of the control will cause the lock output to immediately change state, followed by the Start Delay, then the door begins to open. 0=1/2second; 1 thru 40 increases in 0,2 second increments (20 = 4.5 seconds).



If enabled, after a restart or locking problem, control checks locking with short movement.

SERVICE STG
PARAMETER
LOCKING
Driving C
Time dela
Drive
Entrance
Control P
Locking
Closing Force

2
0
0
0

Closing Force
0

Briefly increases closing force to relieve locking bolt. 0=low force 40=high force During Start Delay, door is powered in closing direction to relieve any binding on electric lock.

SERVICE STG
PARAMETER
Entrance System
Control Panel
Locking
CAN-BUS
Input/Output
Miscellaneous

CAN-BUS
FEM0
FEM1
FEM2
AKI1
S I1
AKI1

0
0
0
0
0
0

Any Can-Bus module or sensor connected is automatically identified & displayed with a "1". Disconnected units are displayed with "?" and must be removed manually with FPC902. Not available units are displayed with a "0".

SERVICE STG
PARAMETER
Entrance S
Control Pa
Locking
CAN-BUS
Input/Outp
Miscellane

INPUT/OUTPUT
STG
FEM0
FEM1
Ext. Sw IN
Emerg. Op
EMERG, S

STG
AUX0_IN
AUX1_IN
AUX4_IN
AUX0_OUT
ZLP

0
0
0
0
0

Configurable Input Terminals 4,6,and 18 on STG Control. Note: With parameters identified as "Safety", a closed contact is required for normal door operation. AUX0_OUT: Dry contacts on STG to Terminals 8(NO), 9(COM), 10(NC) Rated @ 1 Amp 30VDC. ZLP1: Additional Circuit Board to connect threshold Safety Beams. Set ELS to be active. See S5100 Parameter Settings record sheet.

SERVICE STG
PARAMETER
Entrance S
Control Pa
Locking
CAN-BUS
Input/Outp
Miscellane

INPUT/OUTPUT
STG
FEM0
FEM1
Ext. Sw IN
Emerg. Open/Close
EMERG, STOP Reset

Ext. Sw IN
0 Ext. Sw IN
1 Inactive by 1 Way and locked
5 Disabled

0
0
0
0

FEM0,FEM1 contain settings for input/outputs for Expansion Modules. Ext. Sw IN;

SERVICE STG
PARAMETER
Entrance S
Control Pa
Locking
CAN-BUS
Input/Outp
Miscellane

INPUT/OUTPUT
STG
FEM0
FEM1
Ext. Sw IN
Emerg. C
EMERG,

EMERG. OPEN/CLOSE
Function
Speed (Flip Flow only)

0
0

FUNCTION
0 Disabled
1 Emergency Open
2 Emerg. Close
Manual&RemSw
3 Emerg. Close Locked

Five options listed.

Enable to comply with ANSI/BHMA A156.10for Exterior sensor to be active in Exit mode and the door is open.

Responds to AUX00_IN, AUX01_IN or AUX04_IN set to "2SoK_NSK and the control wired appropriately.

SERVICE STG

PARAMETER

INPUT/OUTPUT

EMERG. STOP Reset

Entrance S	STG	>	0 Disabled
Control Pa	FEM0	>	1 Enabled
Locking	FEM1	>	
CAN-BUS	Ext. Sw IN	0	
Input/Outp	Emerg. Open/Close	0	
Miscellane	EMERG. STOP Reset	0	

Enabled:
Emerg Open,
Emerg. Close
Manual &
RemSw,
Emerg. Close
Locked,
Emerg. Close
Locked &
RemSw,
Emerg. close
& Manual
Override.

SERVICE STG

PARAMETER

INPUT/OUTPUT

SIO

Function SIO

Entrance S	Ext. Sw IN	>	1 Stop
Control Pa	Emerg. Op	>	2 Creep
Locking	EMERG, S	>	
CAN-BUS	SIO	>	
Input/Outp	SIS	>	
Miscellane	SIA	>	

Side Screen Sensor
Function of door
opening travel with
SIO signal enabled on
one of the AUX_IN
terminals (NC contact
required), side
approach.

SERVICE STG

PARAMETER

INPUT/OUTPUT

SIO

Activate SIO

Entrance S	Ext. Sw IN	>	0
Control Pa	Emerg. Op	>	
Locking	EMERG, S	>	
CAN-BUS	SIO	>	
Input/Outp	SIS	>	
Miscellane	SIA	>	

Door position from
which SIO Signal
becomes active.
0=active @ closed
1=inactive last 2.5% of
opening
40=inactive entire
opening width

SERVICE STG

PARAMETER

INPUT/OUTPUT

SIO

Suppression SIO

Entrance S	Ext. Sw IN	>	40
Control Pa	Emerg. Op	>	
Locking	EMERG, S	>	
CAN-BUS	SIO	>	
Input/Outp	SIS	>	
Miscellane	SIA	>	

Door position from
which SIO Signal is
inactive..
0=inactive @ closed
39=inactive last 2.5%
of opening
40=active entire
opening width

SERVICE STG

PARAMETER

INPUT/OUTPUT

SIS

Entrance S	Ext. Sw IN	0	1 Stop
Control Pa	Emerg. Open/Close	0	2 Reversing
Locking	EMERG, STOP Reset	0	3 Creep
CAN-BUS	SIO	>	
Input/Outp	SIS	2	
Miscellane	SIA	>	

Threshold Safety
Function of door
in closing
direction with
safety signal
enabled on one
of the AUX_IN
terminals(NC
contacts
required).

SERVICE STG	
Configu	PARAMETER
Learning	Entrance S
Paramete	Control Pa
Maintena	Locking
Function	CAN-BUS
Operatio	Input/Outp
	Miscellane
	INPUT/OUTPUT
	Ext. Sw IN
	Emerg. Open/Close
	EMERG, STOP Reset
	SIO
	SIS
	SIA
	SIA

SIA=Function of door with safety signal across door opening while closed, typically folding door.
SIO=Function of door with safety input during opening cycle.

SERVICE STG	
Configu	PARAMETER
Learning	Entranc
Paramete	Control
Maintena	Locking
Function	CAN-BU
Operatio	Input/O
	Miscella
	MISCELLANEOUS
	TOWA
	Push to
	Push to
	Holding
	Lead tim
	Lead tim
	TOWA
	0 disabled
	1 enabled

If the door is in "Partial Open" mode, enabling TOWA will provide full door opening if traffic approaches on both sides, or occurs for more than 10 sec.

SERVICE STG	
Configu	PARAMETER
Learning	Entrance
Paramete	Control
Maintena	Locking
Function	CAN-BU
Operatio	Input/O
	Miscella
	MISCELLANEOUS
	Push to actuate open
	TOWA
	Push to
	Push to
	Holding
	Lead tim
	Lead tim
	Push to actuate open
	0 Disabled
	0 Normal
	0 Partial

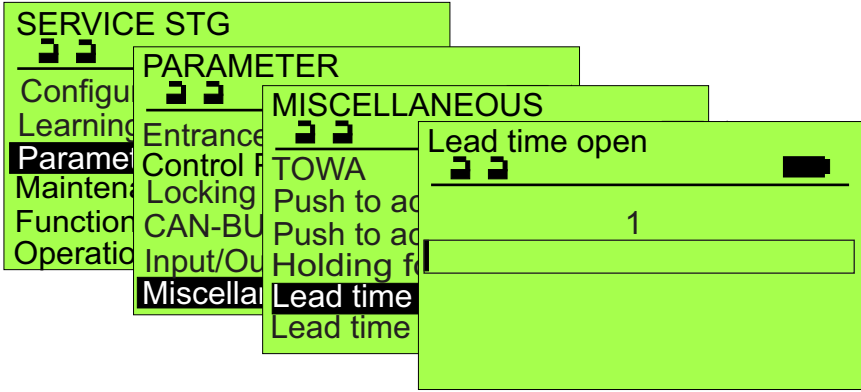
Default: Disabled
Normal: If enabled, will automatically open after pushed 3mm from closed position
Partial: Opens to reduced width.

SERVICE STG	
Configu	PARAMETER
Learning	Entrance
Paramete	Control
Maintena	Locking
Function	CAN-BU
Operatio	Input/O
	Miscella
	MISCELLANEOUS
	Push to actuate close
	TOWA
	Push to
	Push to
	Holding
	Lead tim
	Lead tim
	Push to actuate close
	0 Disabled
	0 Normal

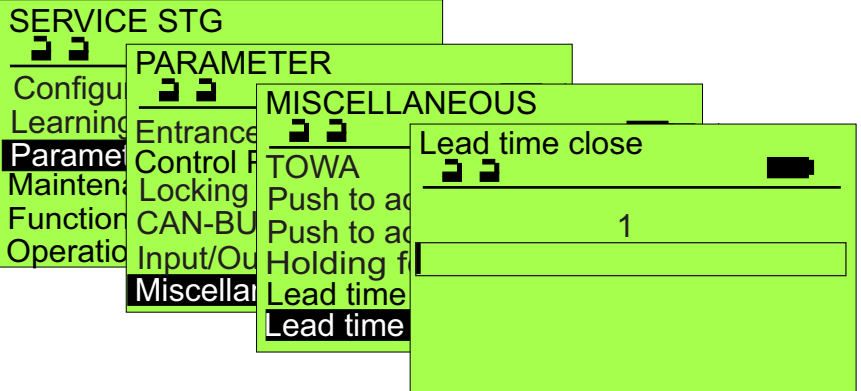
Default: Disabled
Normal: If enabled, will automatically close after pushed 30mm from closed position
Holding force can be used.
Hold open time has no influence.

SERVICE STG	
Configu	PARAMETER
Learning	Entrance
Paramete	Control
Maintena	Locking
Function	CAN-BU
Operatio	Input/O
	Miscella
	MISCELLANEOUS
	TOWA
	Push to actuate open
	Push to actuate close
	Holding force
	Lead time open
	Lead time close
	Holding force
	0

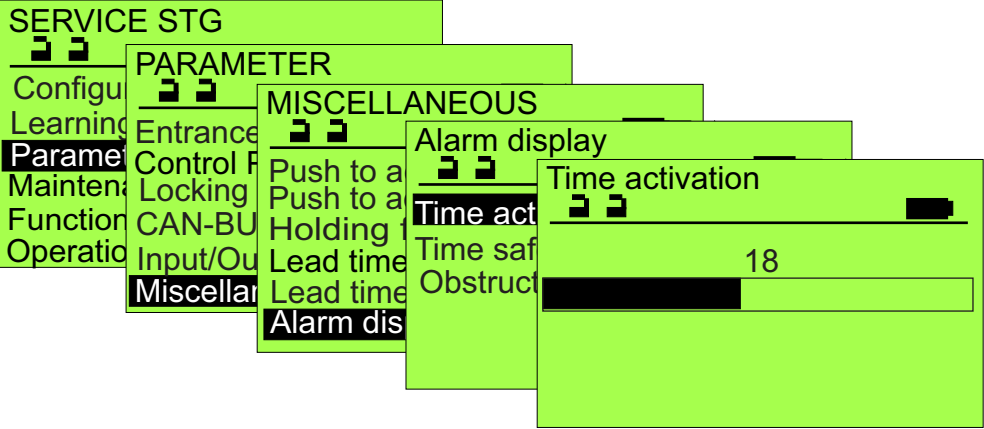
Force required to activate "Push to actuate" function in opening and close.



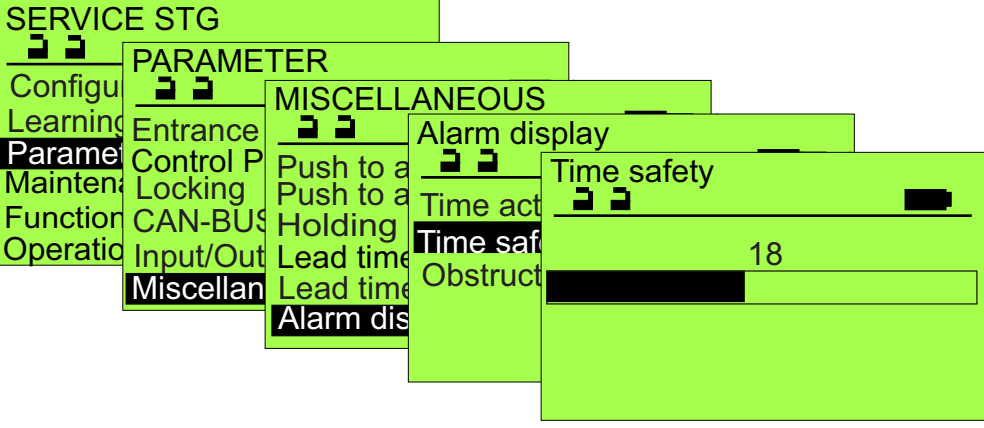
Pre-warning time after the open signal, before the door actually moves, and warning continues while the door is in motion.
 Note: 0 = No pre-warning and no warning while in motion
 1 = 0.2 seconds pre-warning + warning
 40 = 8 seconds pre-warning + warning (opening delayed 8 sec.)
 The push to open function will interrupt the pre-warning delay.
 AUX00_OUT must be set to "9 Warning".



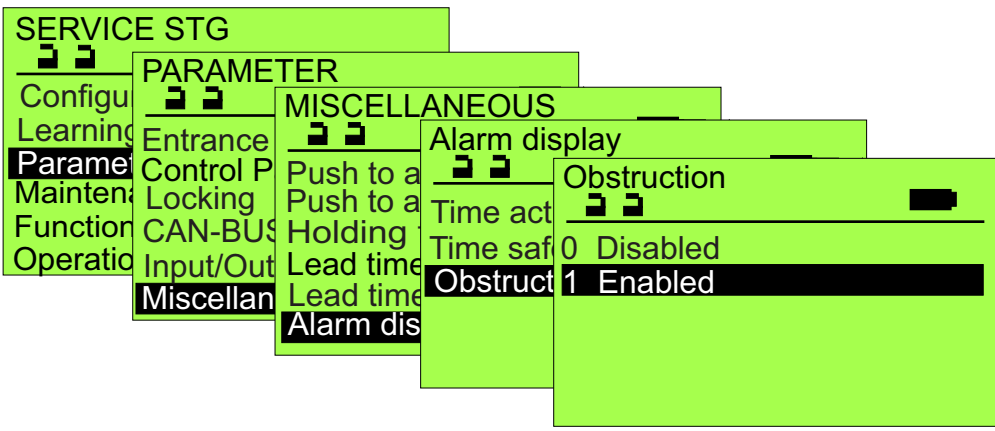
Pre-warning after the open time expires, before the door begins closing, and warning continues during the door is in motion.
 Note: 0 = No pre-warning and no warning while in motion
 1 = 0.2 seconds pre-warning + warning
 40 = 8 seconds pre-warning + warning (closing delayed 8 sec.)
 The push to close function will interrupt the pre-warning delay.
 AUX00_OUT must be set to "9 Warning"



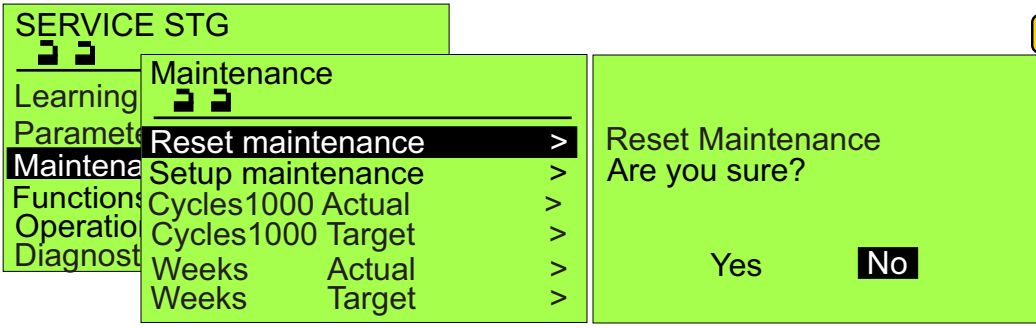
Effective for inputs for Interior Sensor, Exterior Sensor and Special Activation (SSK).
 Display for AKI/AKA/SSK or SIO/SIS/ELS If the alarm output is configured, it will be disabled after the preset time.
 Adjusts in 6 second increments.
 0=Disabled
 1=6 seconds before alarm
 12=72 seconds before alarm
 40=240 seconds before alarm



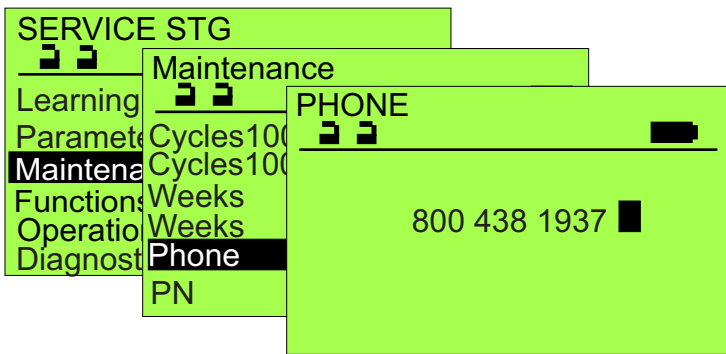
Effective for inputs for Interior Sensor, Exterior Sensor and Special Activation (SSK).
 Similar to Time release above.
 Adjusts in 6 second increments.
 0=Disabled
 1=6seconds before alarm
 12=72 seconds before alarm
 40=240 seconds before alarm



Disabled= Display module will not show Obstruction error.
Enabled= Display module will show Obstruction error.

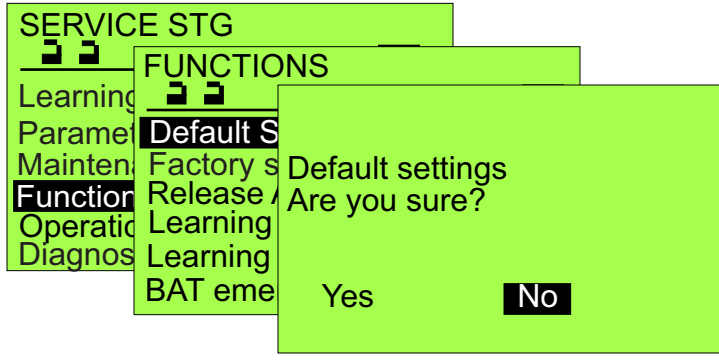


The listed parameters in the center screen are for setting up a maintenance program for the unit and resetting it after target is met.

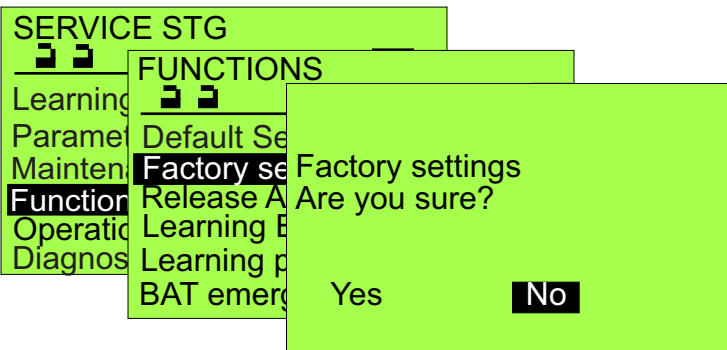


This parameter is used to replace the factory telephone number with a custom telephone number. This number will be momentarily displayed when the unit is switched from "OFF" mode, and will periodically flash when an Alarm screen is displaying. Removal of a custom number will reinstate the factory 800 number.

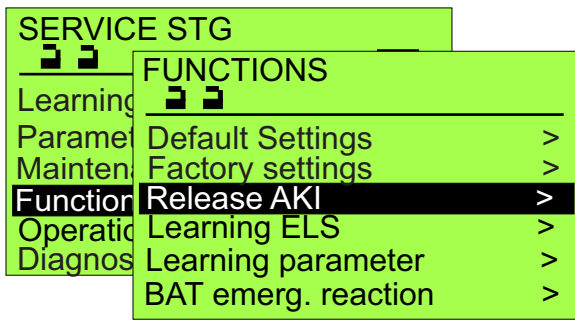
The following screen sequences are not used to modify parameters, but are used to reset various door functions as described.



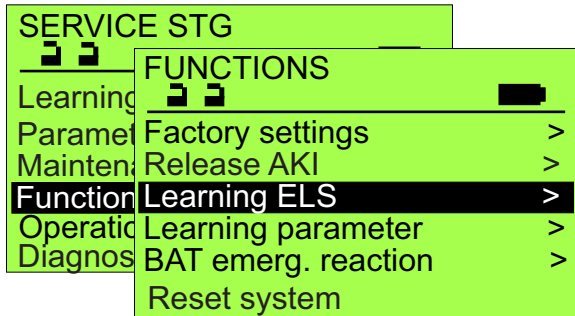
Resets Parameters to "Default settings" and requires a new Calibration run.



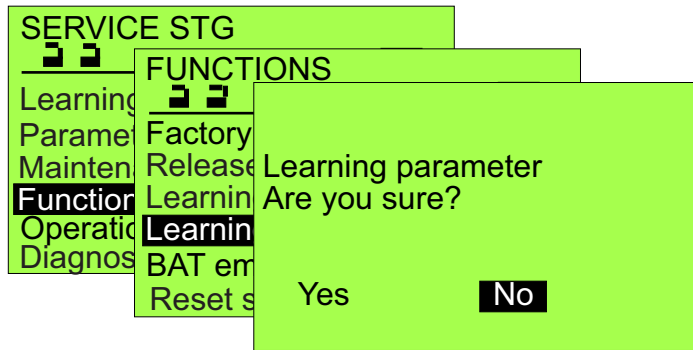
Resets Parameters to "Factory settings" without requiring a new Calibration run.



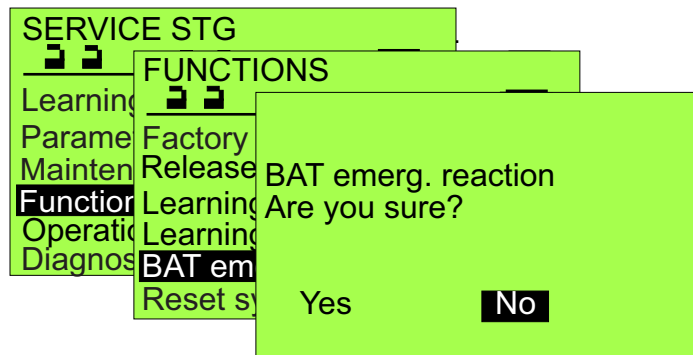
Selecting "Release AKI" and pressing "OK" will simulate an actuation from the Interior Sensor.



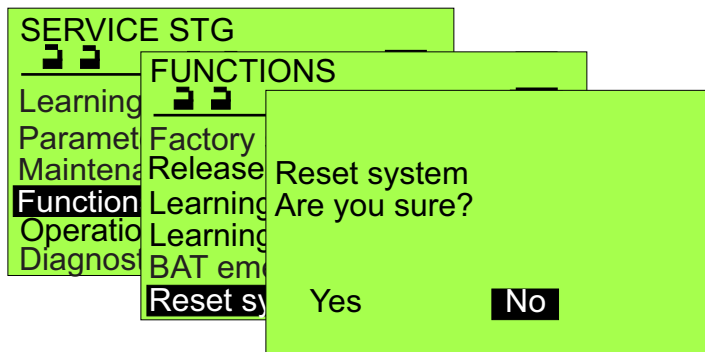
Initiates an acquisition of safety beam characteristics.



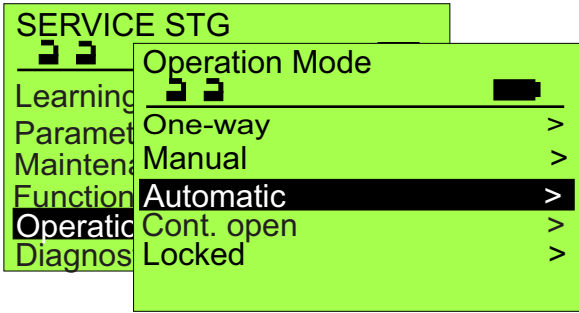
For use when initially commissioning a door, or significantly altering the mechanical characteristics of the door.



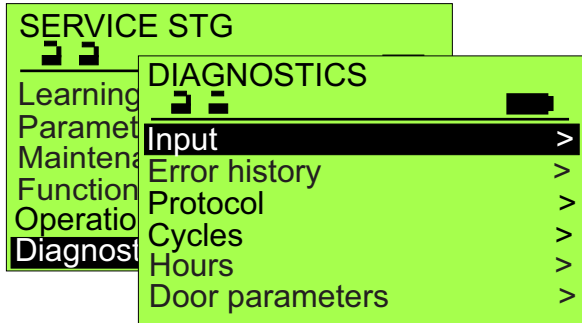
Used to test an optional battery backup.



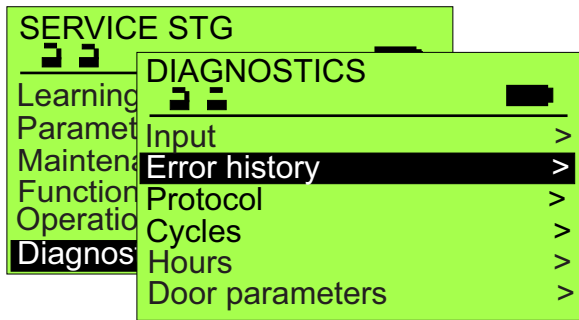
Minor reset to clear faults without requiring a calibration cycle.



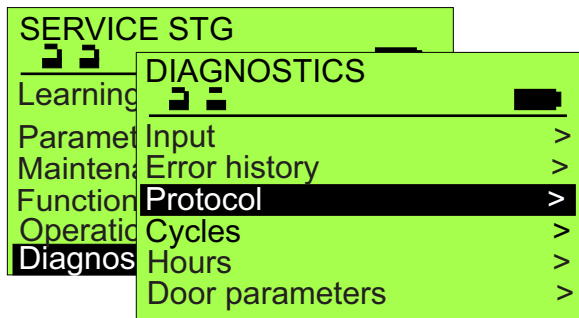
Indicates the current operational mode of the door. Note this screen does not dynamically update in response to changes to the control panel. The Status screen, **accessible** anytime the terminal is servicing the unit (STG), will dynamically update in response to changes to the control panel(s). **By selecting Status Key, bottom row FPC902 keyboard)**



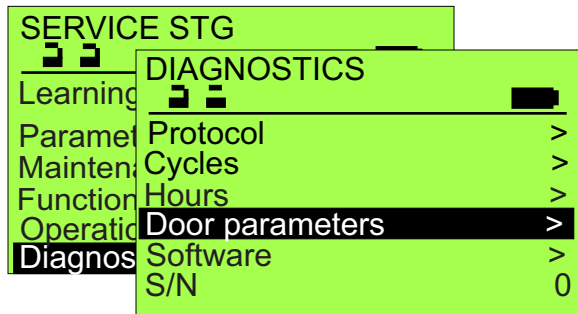
Will illustrate active inputs



List of current Errors and ability to delete for a fresh future listing.



List the status of settings and parameters. Cycle count and hours of operation readouts for maintenance use. Chronological list of the changes to Parameters & Settings with a software-based time stamp.



For factory reference.



The following sequence of screens are to be followed when updating door and display software.

AKKU PASS
FLASH PASS
EEPROM PASS
RTC PASS
CAN PASS

FPC902
Version 2.71
Nov 24 2013
10:48:48

FPC902
Service STG
Service STG Slave >
Flash-Programmer >
Service sensor >
Setup

Use the Down arrow to select "Flash-Programmer" then press "OK"

FLASH PROGRAMMER
Automatic update >
Manual update >
Indicate files >
Check files >

Press "OK"

CAN nodes are searched ...
■■■■■■■■□□□□□□

Updates are searched ...
STA20_UL Vx.xx
replace by
STA20_UL Vx.xx

Use the Left arrow to select "Yes", then press "OK"

Yes **No**

Updates are searched ...
BDE-D Vx.xx
replace by
BDE-D Vx.xx

Use the Left arrow to select "Yes", then press "OK"

Yes **No**

AKKU PASS
FLASH PASS
EEPROM PASS
RTC PASS
CAN PASS

FPC902
Version 2.71
Nov 24 2013
10:48:48

FPC902
Service STG
Service STG Slave >
Flash-Programmer >
Setup >

FLASH PROGRAMMER
Automatic update >
Manual update >
Indicate files >
Check files >

Lists the software stored on the SD card in the FPC902

AKKU PASS
FLASH PASS
EEPROM PASS
RTC PASS
CAN PASS

FPC902
Version 2.71
Nov 24 2013
10:48:48

FPC902
Service STG
Service STG Slave >
Flash-Programmer >
Setup >

FLASH PROGRAMMER
Automatic update >
Manual update >
Indicate files >
Check files >

Checks the software stored on the SD card in the FPC902.

AKKU PASS
FLASH PASS
EEPROM PASS
RTC PASS
CAN PASS

FPC902
Version 2.71
Nov 24 2013
10:48:48

FPC902
Service STG >
Service STG Slave >
Flash-Programmer >
Setup >

SETUP
Renew license >
Select language >

RENEW LICENSE
Lapse counter: 500
ID: 3 076 305 230
KEY: █

Not used in North America

AKKU PASS
FLASH PASS
EEPROM PASS
RTC PASS
CAN PASS

FPC902
Version 2.71
Nov 24 2013
10:48:48

FPC902
Service STG >
Service STG Slave >
Flash-Programmer >
Setup >

SETUP
Renew license >
Select language >

SELECT LANGUAGE
DEUTSCH
FRANCAIS
ENGLISH
ENGLISH US

11 Abbreviations

A	A	Width of passage	M	MOT	Motor
	AKA	Actuating contact „outside“		MP	General installation plan
	AKI	Actuating contact „inside“	N	NET	Power supply
	AMP	Lamp		NSK	Emergency fail close contact
	APA	actuating switch for pharmacies			
	APD	Pushbutton for pharmacies	O	OUT	Output
	APR	locking bar for pharmacies		OVA	Optical lock indicator
	APS	safety device for pharmacies	R	RAD-A	Radar „outside“
	AS	Connection or general schematic diagram		RAD-I	Radar „inside“
	ATE	Drive unit		RED	Redundant module
	ATM	Drive module	S	SAA	interlock control “exit actuation blocked”
B	BAT	Battery-pack		SAG	Control unit
	BDE	Control unit		S-AUS	Interlock control
	BDE-E	Control unit electronic		SEA	Interlock control “entrance actuation blocked”
	BDE-M	Control unit mechanical		SEK	Transmitter head
	BDE-R	Control unit redundant		SHE	Safety element, external
	BS	BDE with lock		SÖK	Emergency opening contact
C	CAN-H	Serial interface		SPS	Stored program control SPC
	CAN-L	Serial interface		SSA	Slidebar operator
	CO48	special standard in France		SSK	Key-operated contact
	CPU	microprocessor		STA	Sliding door drive
D	D-STA	Double sliding door drive		STD	Socket
	DUO	heavy door operator		STG	Control unit
E	EEPROM	parameter storage		STM	Control module
	ELS	Light barrier		STP	Control p.c.b.
	EMK	Receiver head		SUR-A	Time switch contact “exit mode”
	EPROM	program storage		SUR-V	Time switch contact “locking mode”
	ES	Electrical connection diagram	T	THS	Thermostatic switch
	E-STA	Single sliding door drive		TOS	Break-out system
	E-STA-L	Single sliding door drive left		TOZ	Door hold-open time
	E-STA-R	Single sliding door drive right		TSA	Telescopic sliding door operator
F	F	Length of header		TÜV	Industrial inspectorate
	FEM	Extended functions module	U	UMR	Guide pulley
	FIRST	redundant operator		µP	Microprocessor
G	G	Height of passage	V	VAK	Lock indicating contact
	GTR	Gearbox		VAL	Locking alarm
H	HEA	Manual unlocking „from outside“		VL	Wiring list
	HEI	Manual unlocking „from inside“		VRR	Locking device
	HES	Manual unlocking switch	Z	ZLP	Supplementary printed circuit board
K	KA	Cable exit			
L	LED	Light-emitting diode			
	LS	Wiring diagram			

ALARM CODES AND ERROR MESSAGES

No.	Display text	Type	Res	Comments and possible troubleshooting
3	AKI > 60 sec. active			Inside radar longer than 60 sec. active and door remains open. Check that no moving objects are activating the radar.
5	AKA > 60 sec. active			Outside radar longer than 60 sec. active and door remains open. Check that no moving objects are activating the radar.
6	Unlocking error		X	Unlocking error: it is impossible to unlock the door. <u>Repeat unlocking attempt after changing the BDF operating mode.</u>
7	No redundancy test	RED	X	When no „redundancy“ test could happen within the last 24 h or the „redundancy“ test was not correctly performed on a <u>door not locked. Reset. Control settings.</u>
9	Battery fuse open		X	Battery fuse is disconnected or battery is not plugged in.
9	Open. unsuccessful			Door does not open or only slowly. <u>SIO might possibly be active or motion be mechanically hindered (e.g. dirt in floor track).</u>
10	Locking error			Locking error and door remains approx. 10 cm open → depending on parameterising door remains closed. Door might possibly be hindered or locking device might need to be adjusted.
11	Difference AKI	RED	X	Error in the interpretation of the inside radar signal. Check inside radar.
12	Low BAT voltage		X	Battery is missing or is not plugged in. Door works if mains voltage is provided.
12	BAT capacity		X	Battery no longer meets minimum power requirements. Replace Battery.
14	VAK defective		X	Locking device hampered. Adjust door leaves and locking device.
15	EMERG. OPEN.	RED		On RED installations emergency opening switch has been actuated.
17	Timeout open. time	RED	X	80% of escape route opening not reached within 3 sec. Control with FPC, adjust opening speed. Under „Status“, <u>opening time + 400 ms.</u>
18	VAK closed automatic		X	Adjust locking device. Make contact (NOC) of locking device is active with Automatic. Locking is set on „wrong“ position. Change operating mode on BDE-D to Locked and again to Automatic. Actuate manual unlocking, or rather completely reset it.
29	TOS not locked	TOS with DV		TOS not locked (rotary switches) on Locked. Turn rotary switches onto Locked position (above).
30	TOS locked	TOS with DV		Automatic mode, TOS locked, but door stays in manual mode.
31	EMERGENCY STOP			Emergency stop key has been pressed or manual unlocking has been actuated.
33	Error ELS1		X	Light barrier signal is not identified. Inform after-sales service. Calibrate ELS with 2 light pulses.
36	VOK closed I.		X	Locking device does not work properly. On BDE-D change operating mode to Automatic and again to Locked. Wrong <u>locked position or VRR faulty.</u>
37	Motor current		X	Possibly wrong motor type parameterised or motor is overloaded.
38	Motor 1 overheat		X	Motor 1 is too warm. Door works sluggishly.
39	Overload 24V		X	24 volts supply for peripheral units is overloaded. Check wiring.
41	Temp. sensor 1		X	With motor 1: temperature sensor is faulty or motor cable is disconnected.
42	Temp. sensor 2		X	With motor 2: temperature sensor is faulty or motor cable is disconnected.
43	Encoder fault		X	Encoder or cable is faulty or not plugged in. Reset.
44 W	T. motor high			Warning message; Time Delays will be extended. <u>Door might work sluggishly. Check for presence of mechanical hindrance.</u>
46	STG defective		X	Control unit is defective. Reset. If no success, then replace control unit.
47	SIO > 60 sec active		X	Door does not open or slides at reduced speed. Check Safety Sensor SIO.
48	NSK or SOK activated			Remote Alarm has just received. Control safety alarm. Control external signal.
50	Watchdog fault			Replace control unit.
51	VOK op n unl.		X	Repeat locking and unlocking procedures. <u>Connection cable might be missing or is not properly plugged in. Check locking settings.</u>
52	No run param.		X	Door must be calibrated (perform teach-in run).
53	Interrupt. mot. 1		X	Motor is not plugged in. Motor is faulty.
54 W	Calibrating run		X	Warning message: Calibration run is performed.
55	Power failure			No mains supply. Door works in battery service provided that there is a battery and <u>„Basic escape route“ has been configured.</u>
57	Interrupt. mot. 2		X	2nd motor is not plugged in. Motor is faulty.
59	ELS > 60 sec. active			Light barriers interrupted or disconnected and door remains open. Check that safety barriers are not covered or <u>extremely dirty.</u>
59	SIS > 60 sec. active		X	Door does not close. Check Safety Sensor SIS.
60	EEPROM defective		X	Load factory settings. 9 light pulses with MFT and reset within 10 seconds. Afterwards language selection has to be displayed on BDE-D. Attention! All programmings are reset. Reconfigure door. Replace control unit if door still fails to <u>function.</u>
61	SSK > 60 sec. active			Key-operated contact stays active. Door remains open. <u>Check Remote Switch (SSK) wiring connections and switch.</u>
62	BDE no priority			BDE is locked e.g. by a clock timer on input SURV/SURA accordingly configured.
92	STG relay defect.		X	Change control unit.
93	Overvoltage 24V		X	Wiring error. Check connections.
96	EEPROM void		X	Load factory settings. See error 60.
97 W	Maintenance time exceeded		X	Warning message: Acknowledge message. Alarm is reset for 13 days. Actual value = 105% of target value of cycles or operating hours. <u>Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert.</u>
98 W	Maintenance due		X	Warning message: Acknowledge message. Alarm is reset for a short time. Repeats at 100% Actual value = 95% of target value of cycles or operating hours. <u>Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert.</u>
112	Batt. not charged complet.			Battery is not fully charged. Message disappears from display in case of full charge.
2132	FPC Can blocked ***** BDE Can blocked ***** ERROR by saving in the STG			On a locked door the CAN-Bus will be blocked for devices like the BDE-D(Display) or FPC if they were not connected BEFORE the door was locked. When reading either of the 3 messages from the left column, to unblock, the door needs to be unlocked or the emergency switch has to be activated or the multi-function switch on the control has to be pressed for 1 flash.