

## Servicing the Series 5100(Sys.20) with the FPC-902 Hand Terminal



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 2.71  
Aug 13 2013  
14:32 : 06

FPC902

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

Connect with STG ...  
■■■■■■■■□□□□□□

Accept all parameter  
from the STG?  
Offline Yes

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

STA20\_UL V1.00  
Break-out USA  
Automatic  
0 Errorless  
Continue

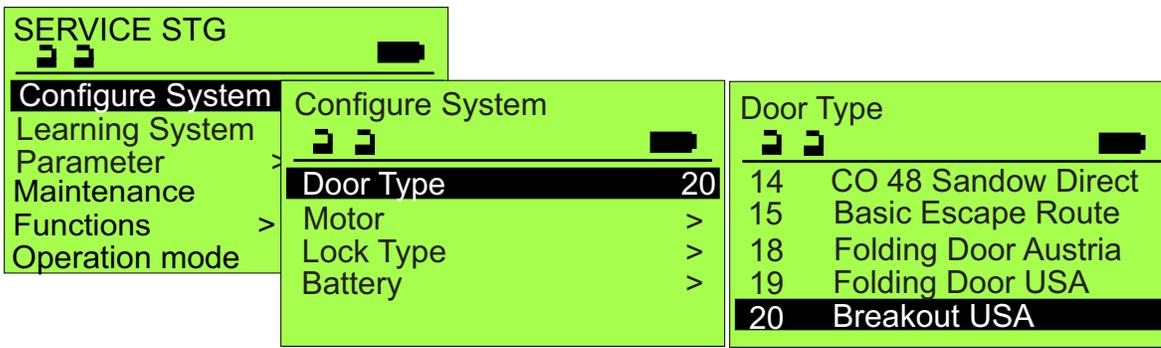
SERVICE STG  
Configure System >  
Learning System >  
Parameter >  
Maintenance >  
Functions >  
Operation mode >

**Press "OK"**

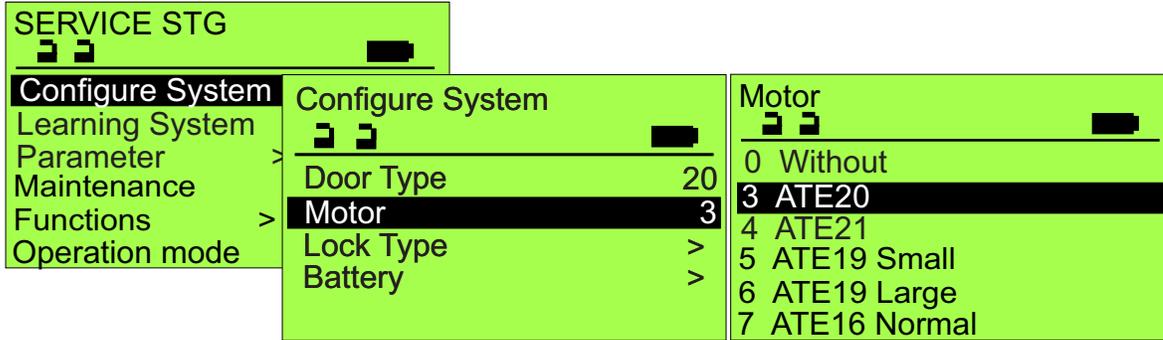
**Press "OK"**

**Press "OK"**

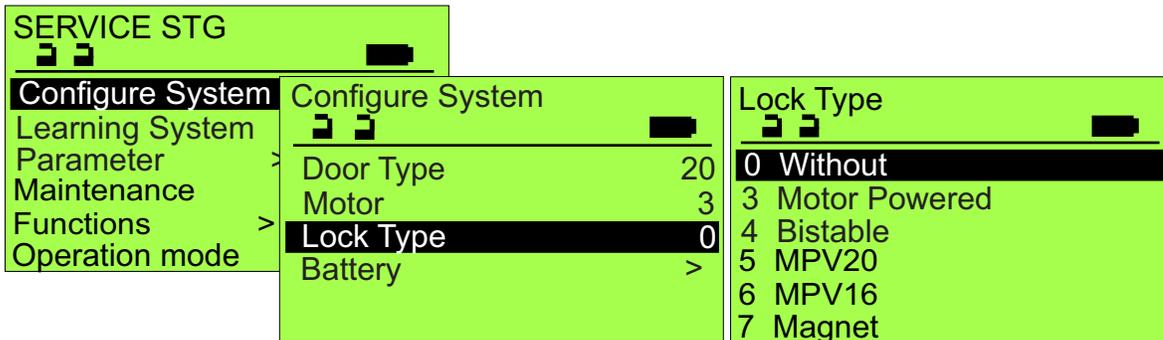
The screen sequences on the following pages start from this point and document the various adjustable parameters in the control. When at any of the screens shown below, the above screen can be accessed by pressing the "ESC" key one or more times.



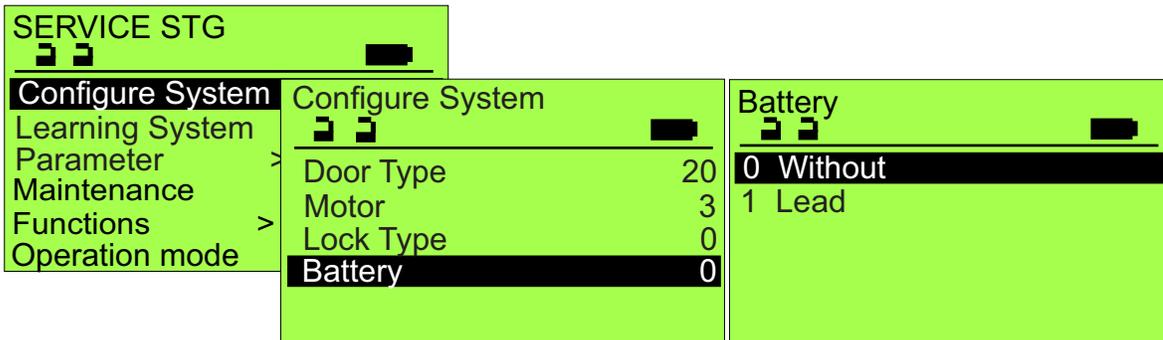
**Press  
"OK"**



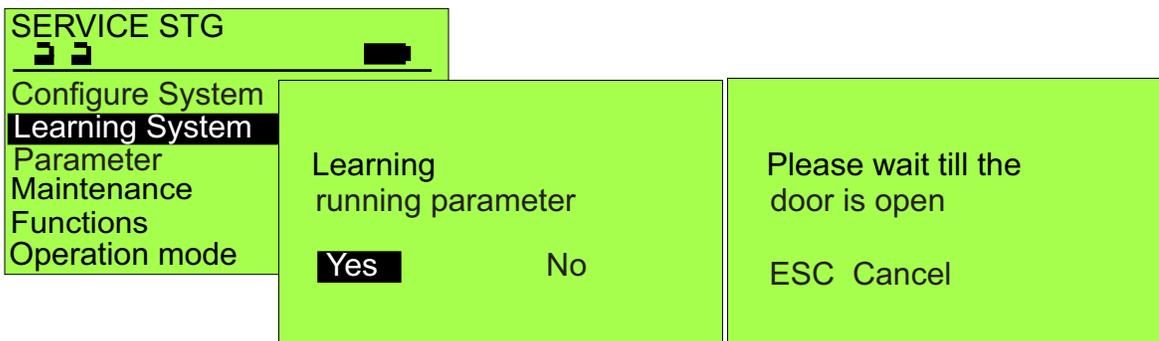
**Press  
"OK"**



**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  
 Config Learning Param  
 Driving  
 Time de Closing speed 20  
 Drive Opening speed 36  
 Entranc Open >  
 Control Close >  
 Locking Ramp >  
 Seal >

CLOSING SPEED  
 24

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

SERVICE STG  
 PARAMETER  
 Config Learning Param  
 Driving  
 Time de Closing speed 20  
 Drive Opening speed 36  
 Entranc Open >  
 Control Close >  
 Locking Ramp >  
 Seal >

OPENING SPEED  
 36

SERVICE STG  
 PARAMETER  
 Config Learning Param  
 Driving  
 Time de Closing speed 20  
 Drive Opening speed 36  
 Entranc Open >  
 Control Close >  
 Locking 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  
 Config Learning Param  
 Driving  
 Time de Closing speed 20  
 Drive Opening speed 36  
 Entranc Open >  
 Control Close >  
 Locking 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  
 Config Learning Param  
 Driving  
 Time de Closing speed 20  
 Drive Opening speed 36  
 Entranc Open >  
 Control Close >  
 Locking 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

Configu	DRIVING CYCLE	Seal
Learnin	Driving	
Parame	Time de	
Mainten	Drive	
Function	Entranc	
Operatio	Control	
	Locking	
	Seal	

Closing speed 20

Opening speed 36

Open >

Close >

Ramp >

Seal >

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

SERVICE STG

PARAMETER

Configu	TIME DELAY OPEN	TIME DELAY OPEN
Learnin	Driving	
Parame	Time de	
Mainten	Drive	
Function	Entranc	
Operatio	Control	
	Locking	

Time delay open 2

Time delay Rem. Sw 20

SSK Delay 0

Reset with button 0

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

Configu	TIME DELAY OPEN	TIME DELAY REM. SW
Learnin	Driving	
Parame	Time de	
Mainten	Drive	
Function	Entranc	
Operatio	Control	
	Locking	

Time delay open 2

Time delay Rem. Sw 20

SSK Delay 0

Reset with button 0

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

Configu	TIME DELAY OPEN	SSK Delay
Learnin	Driving	
Parame	Time de	
Mainten	Drive	
Function	Entranc	
Operatio	Control	
	Locking	

Time delay open 2

Time delay Rem. Sw 20

SSK Delay 0

Reset with button 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

Configu	TIME DELAY OPEN	Reset with button
Learnin	Driving	
Parame	Time de	
Mainten	Drive	
Function	Entranc	
Operatio	Control	
	Locking	

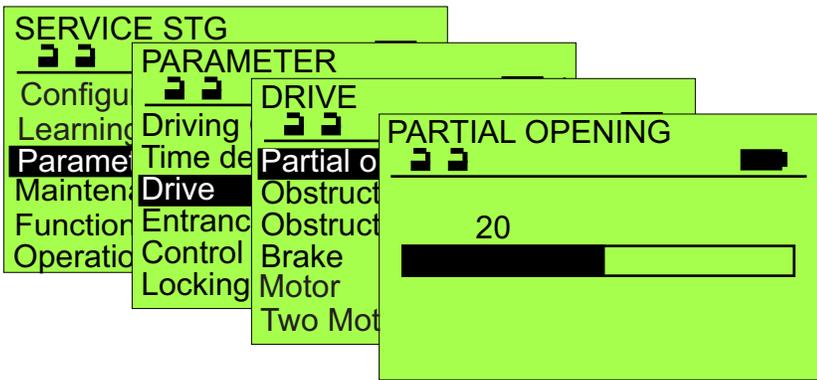
Time delay open 2

Time delay Rem. Sw 20

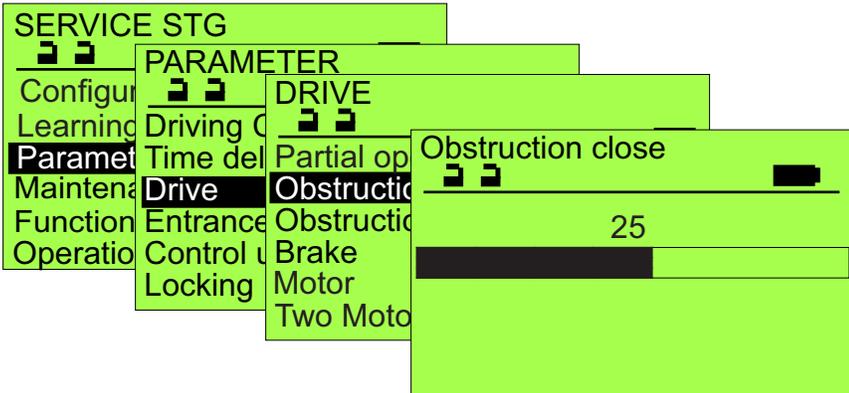
SSK Delay 0

Reset with button 0

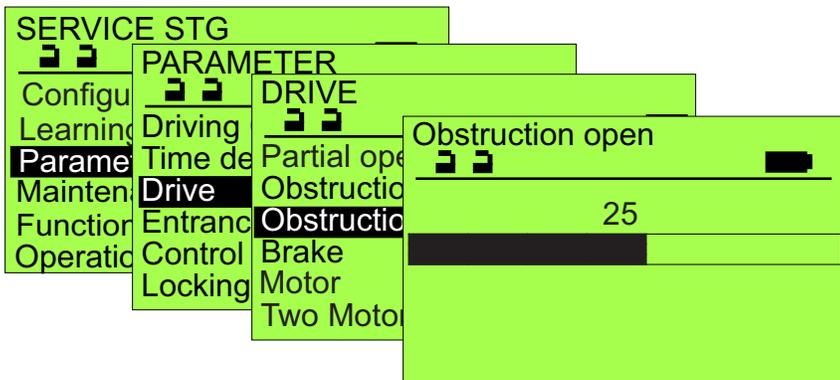
Enables early closing by sending same signal again during hold open. Disabled= no interruption Enabled= Hold time can be interrupted with a signal from AKI, AKA, & SSK.



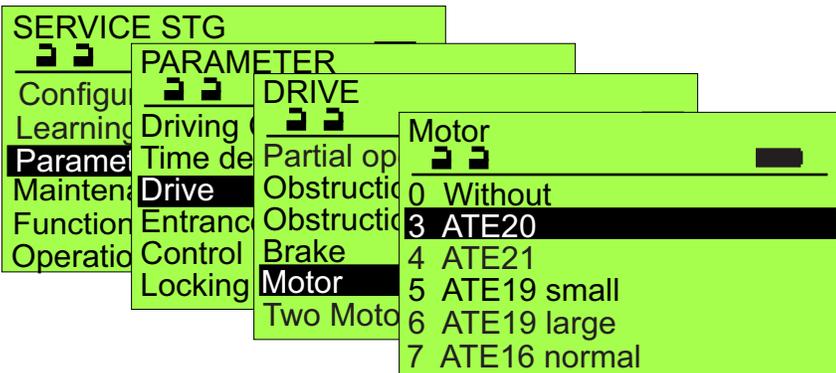
Reduced opening limits:  
 0 = 8 inches (minimum);  
 40 = 100% of opening.



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



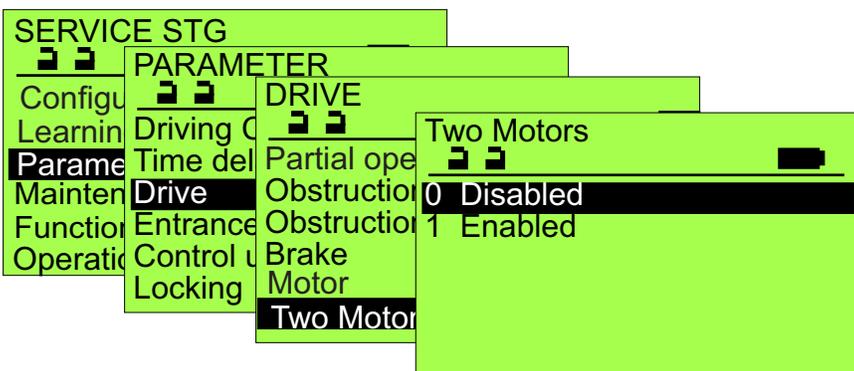
If the door is reversing due to extraordinarily tight weather seals or extreme stack pressures, change from 0 to higher number.



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.

SERVICE STG  
 Configu  
 Learning  
 Paramet  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control u  
 Locking

DRIVE  
 Motor  
 Two Motor  
 EmergOp  
 Power Fai  
 Battery  
 Speisung

EmergOp. Battery  
 0 Close, not lock  
 1 Unlock and open  
 2 Close and lock  
 3 Open, if not locked

*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.*

SERVICE STG  
 Configu  
 Learning  
 Paramet  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control u  
 Locking

DRIVE  
 Motor  
 Two Motor  
 EmergOp  
 Power Fai  
 Battery  
 Speisung

POWER FAILURE  
 0 Battery operation  
 1 Emergency operation

*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.*

SERVICE STG  
 Configu  
 Learning  
 Paramet  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control u  
 Locking

DRIVE  
 Motor  
 Two Motor  
 EmergOp  
 Power Fai  
 Battery  
 Speisung

BATTERY  
 0 Without  
 1 Lead

*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.*

SERVICE STG  
 Configu  
 Learning  
 Paramet  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control P  
 Locking

ENTRANCE SYSTEM  
 Measure  
 Measure  
 Door Lea  
 Interlock  
 Door typ

MEASURE A  
 0

*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"*

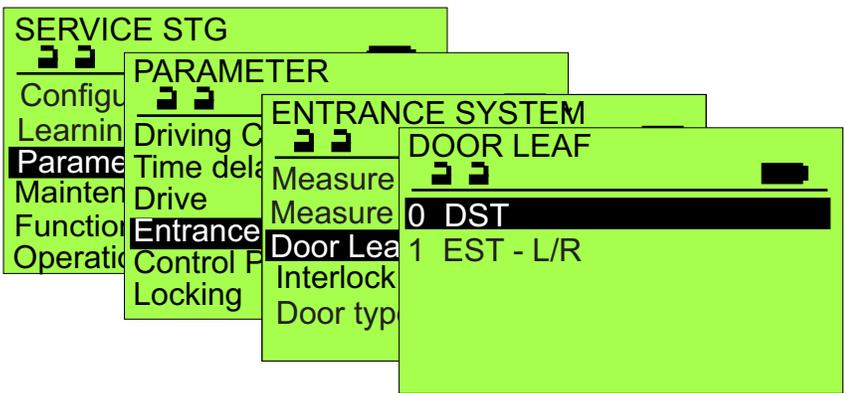
SERVICE STG  
 Configu  
 Learning  
 Paramet  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control P  
 Locking

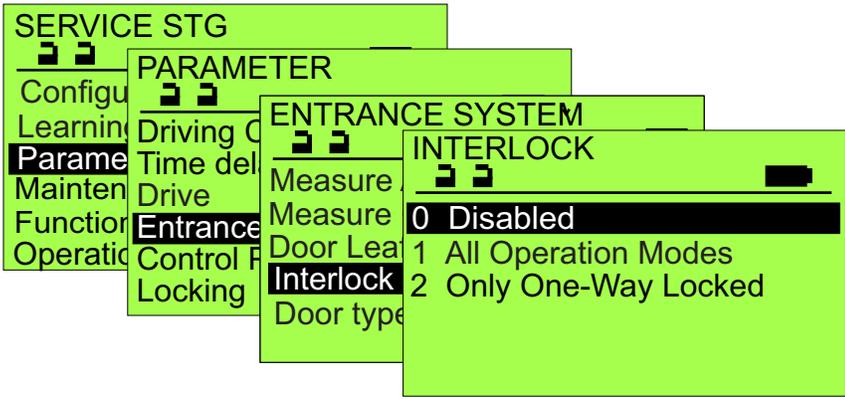
ENTRANCE SYSTEM  
 Measure  
 Measure  
 Door Lea  
 Interlock  
 Door typ

MEASURE G  
 0

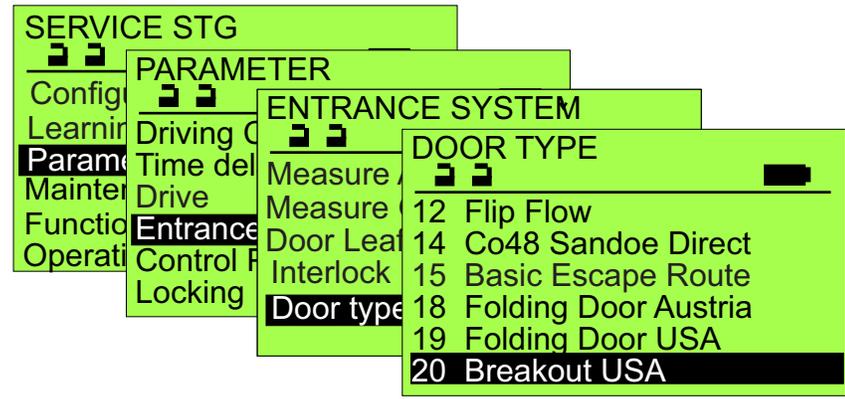
*Door Opening Height Measured in mm. Not used yet.*



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

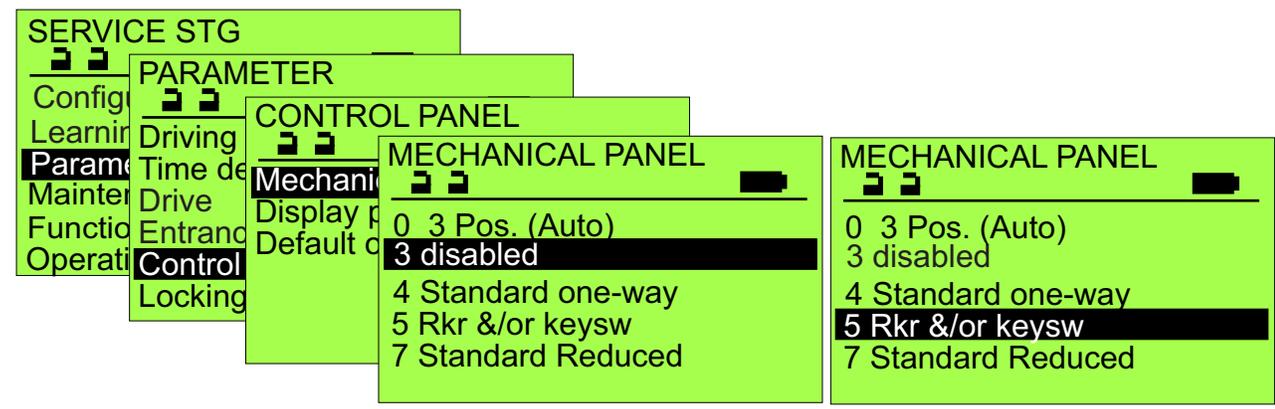


Requires a FEM-1.  
 Direction detecting sensors are recommended to avoid nuisance open cycles (depending on the operating mode).  
 A SIS-signal during the closing cycle affects only the open door.  
 The reduced opening width is supported. Refer to 5100 Installation Instructions for more detail..



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  
 Configu  
 Learning  
 Paramete  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control P  
 Locking

CONTROL PANEL  
 Mechan  
 Display  
 Default c

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  
 Configu  
 Learning  
 Paramete  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control P  
 Locking

CONTROL PANEL  
 Mechan  
 Display  
 Default c

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  
 Configu  
 Learning  
 Paramete  
 Mainten  
 Function  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control P  
 Locking

CONTROL PANEL  
 Mechan  
 Display  
 Default c

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

CONTRAST BDE1  
 20

SERVICE STG  
 Configu  
 Learning  
 Paramete  
 Mainten  
 Functions  
 Operatio

PARAMETER  
 Driving C  
 Time dela  
 Drive  
 Entrance  
 Control p  
 Locking

CONTROL PANEL  
 Mechan  
 Display  
 Default

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

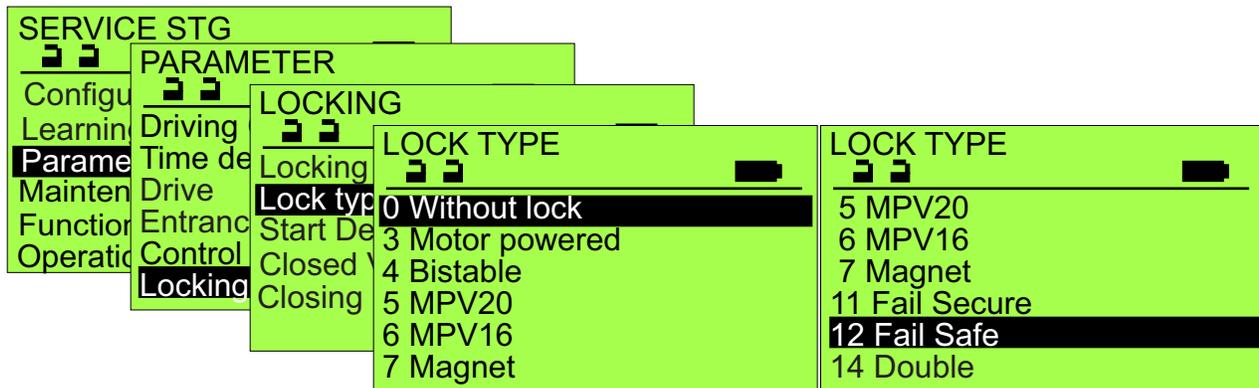
Mechanical Panel	3
Display panel	>
Default op. mode	0

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

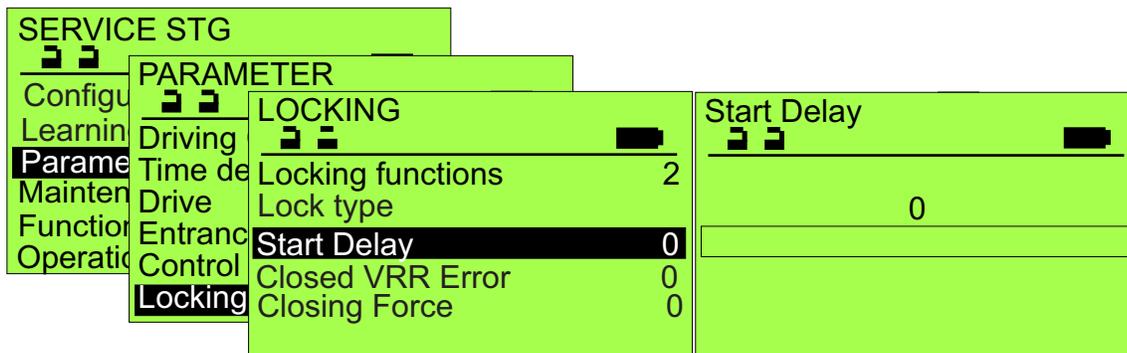
Determines the operating mode when there is no Display module connected or a Mechanical Panel configured.



“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.

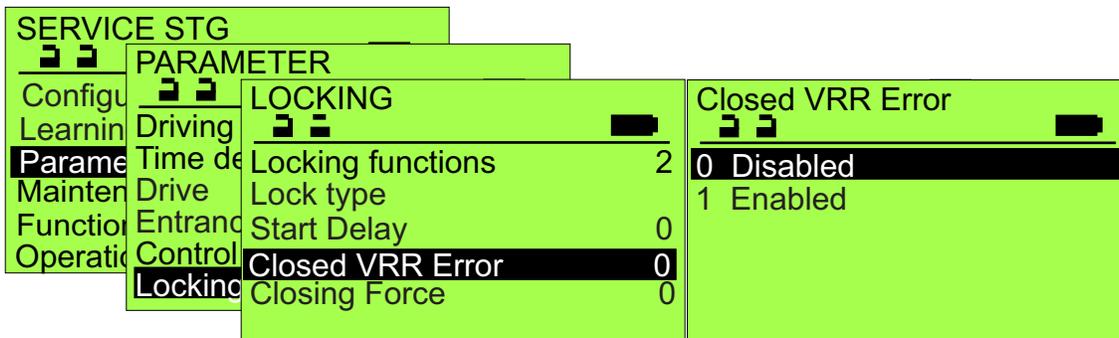


Typically select “Without lock”, “Fail secure”, or “Fail safe” for North American applications. Consult factory before connecting third party electric locks to the lock output of the door control.



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	Closing Force
Configur	Driving C	Locking functions	0
Learning	Time dela	Lock type	
Paramet	Drive	Start Delay	
Maintena	Entrance	Closed VRR Error	
Function	Control P	Closing Force	0
Operatio	Locking		

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	CAN-BUS
Configur	Entrance System	FEM0
Learning	Control Panel	FEM1
Paramet	Locking	FEM2
Maintena	CAN-BUS	AKI1
Function	Input/Output	S I1
Operatio	Miscellaneous	AKI1

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	INPUT/OUTPUT	STG
Configur	Entrance S	STG	AUX0_IN
Learning	Control Pa	FEM0	AUX1_IN
Paramet	Locking	FEM1	AUX4_IN
Maintena	CAN-BUS	Ext. Sw IN	AUX0_OUT
Function	Input/Outo	Emerg. Op	ZLP
Operatio	Miscellane	EMERG, S	

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	INPUT/OUTPUT	Ext. Sw IN
Configur	Entrance S	STG	0 Ext. Sw IN
Learning	Control Pa	FEM0	1 Inactive by 1 Way
Paramet	Locking	FEM1	and locked
Maintena	CAN-BUS	Ext. Sw IN	5 Disabled
Function	Input/Outo	Emerg. Open/Close	
Operatio	Miscellane	EMERG, STOP Reset	

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

SERVICE STG	PARAMETER	INPUT/OUTPUT	EMERG. OPEN/CLOSE	FUNCTION
Configur	Entrance S	STG	Function	0 Disabled
Learning	Control Pa	FEM0	Speed (Flip Flow only)	1 Emergency Open
Paramet	Locking	FEM1		2 Emerg. Close
Maintena	CAN-BUS	Ext. Sw II		3 Emerg. Close
Function	Input/Outo	EMERG, C		Manual&RemSw
Operatio	Miscellane	EMERG, S		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.

SIA	
1	Stop
2	Creep

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

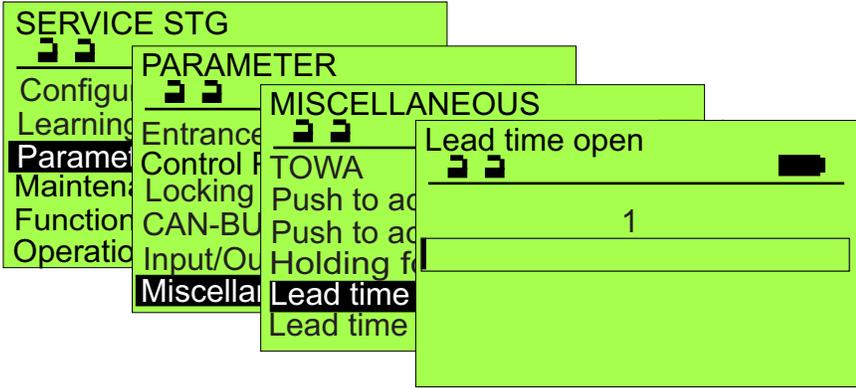
Default: Disabled  
Normal: If enabled, will automatically open after pushed 3mm from closed position  
Partial: Opens to reduced width.

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

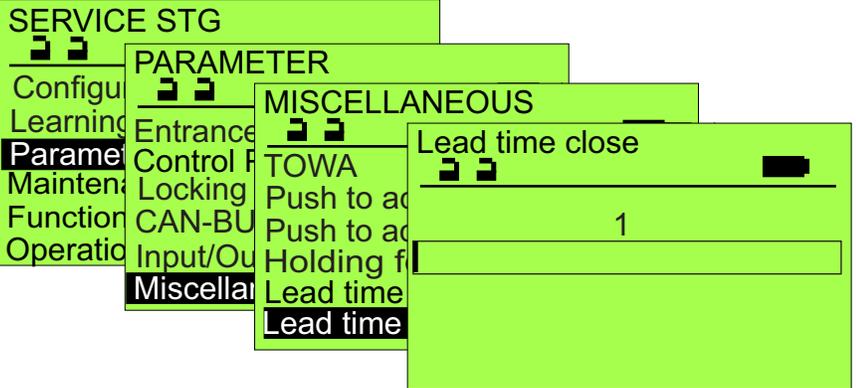
Default: Disabled  
Normal: If enabled, will automatically close after pushed 30mm from closed position  
Holding force can be used.  
Hold open time has no influence.

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

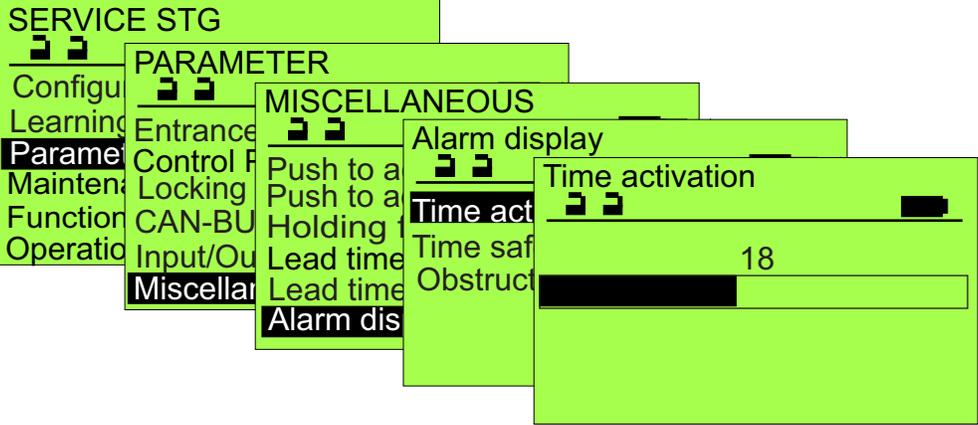
Force required to activate "Push to actuate" function in opening and close.



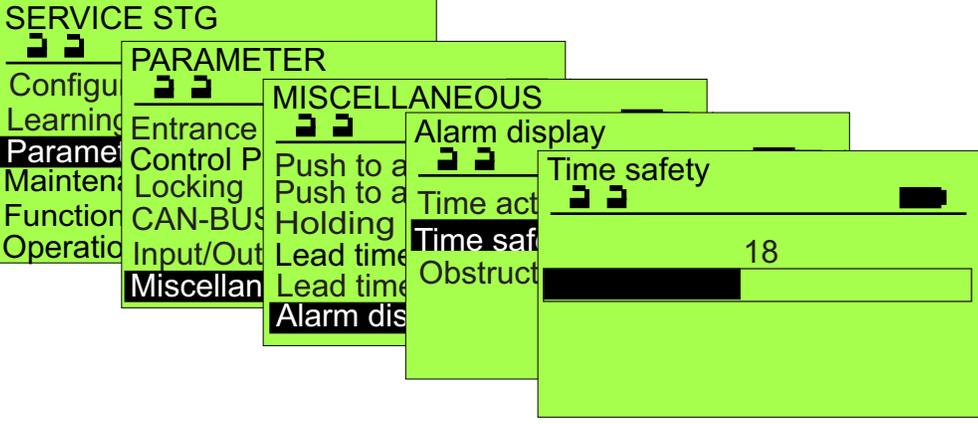
Pre-warning time after the open signal, before the door actually moves, and warning continues while the door is in motion.  
 Note: 0 = No pre-warning and no warning while in motion  
 1 = 0.2 seconds pre-warning + warning  
 40 = 8 seconds pre-warning + warning (opening delayed 8 sec.)  
 The push to open function will interrupt the pre-warning delay.  
 AUX00\_OUT must be set to "9 Warning".



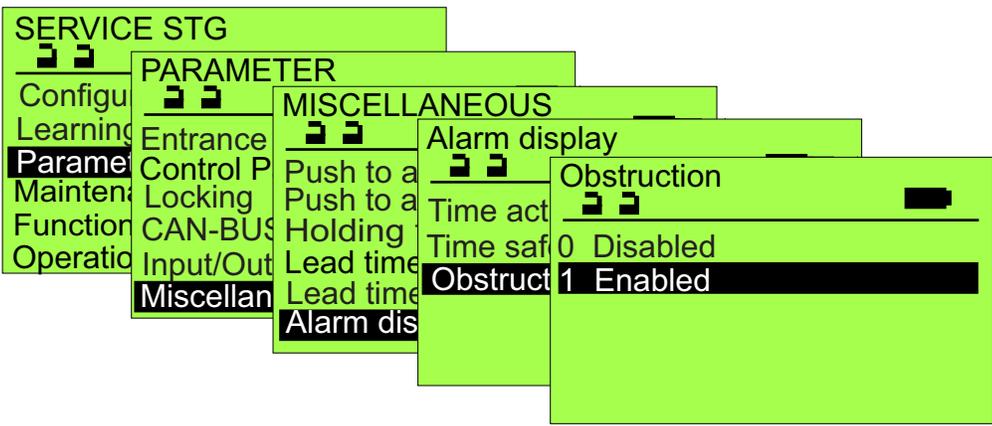
Pre-warning after the open time expires, before the door begins closing, and warning continues during the door is in motion.  
 Note: 0 = No pre-warning and no warning while in motion  
 1 = 0.2 seconds pre-warning + warning  
 40 = 8 seconds pre-warning + warning (closing delayed 8 sec.)  
 The push to close function will interrupt the pre-warning delay.  
 AUX00\_OUT must be set to "9 Warning"



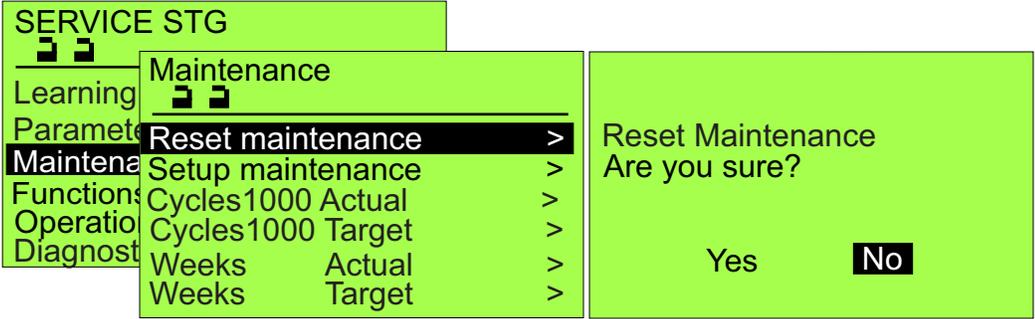
Effective for inputs for Interior Sensor, Exterior Sensor and Special Activation (SSK).  
 Display for AKI/AKA/SSK or SIO/SIS/ELS If the alarm output is configured, it will be disabled after the preset time.  
 Adjusts in 6 second increments.  
 0=Disabled  
 1=6 seconds before alarm  
 12=72 seconds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



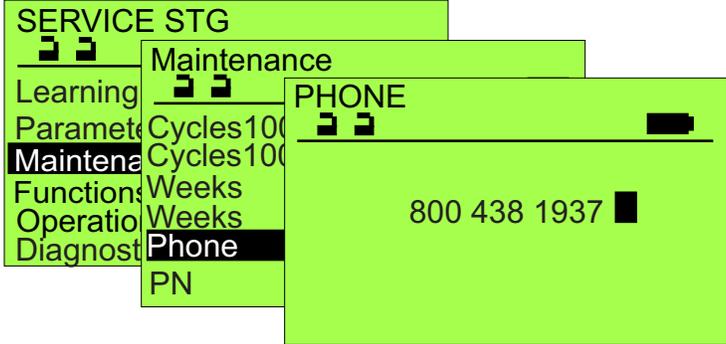
Effective for inputs for Interior Sensor, Exterior Sensor and Special Activation (SSK).  
 Similar to Time release above.  
 Adjusts in 6 second increments.  
 0=Disabled  
 1=6seconds before alarm  
 12=72 seconds before alarm  
 40=240 seconds before alarm



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

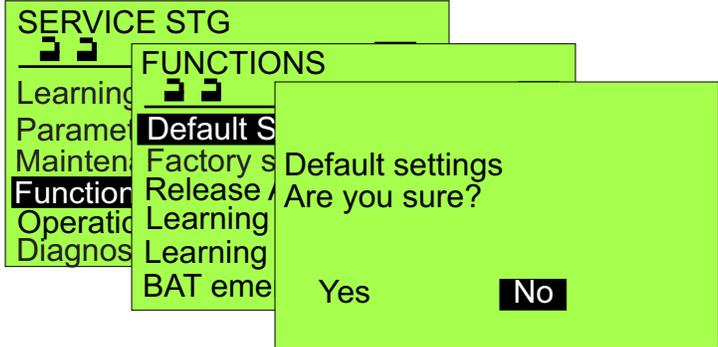


The listed parameters in the center screen are for setting up a maintenance program for the unit and resetting it after target is met.

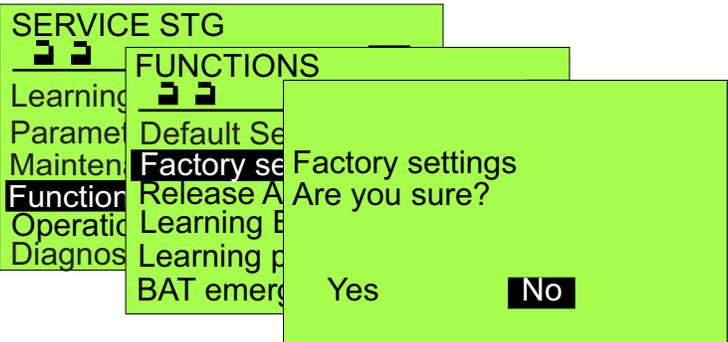


This parameter is used to replace the factory telephone number with a custom telephone number. This number will be momentarily displayed when the unit is switched from "OFF" mode, and will periodically flash when an Alarm screen is displaying. Removal of a custom number will reinstate the factory 800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

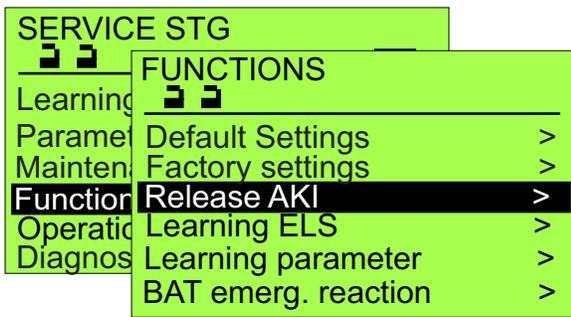
The following screen sequences are not used to modify parameters, but are used to reset various door functions as described.



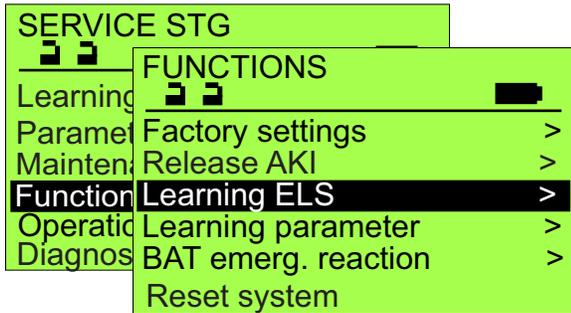
Resets Parameters to "Default settings" and requires a new Calibration run.



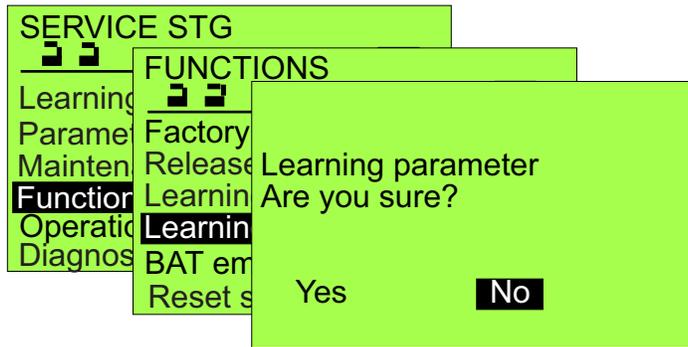
Resets Parameters to "Factory settings" without requiring a new Calibration run.



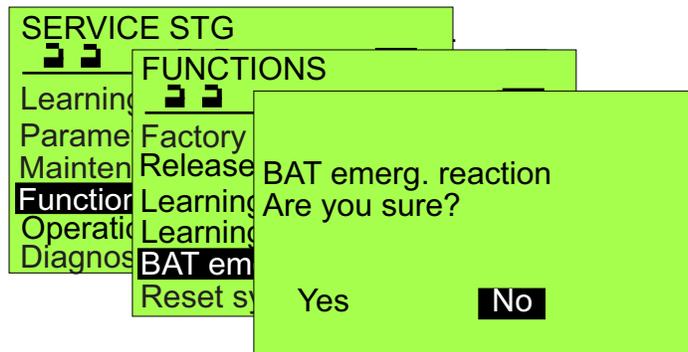
Selecting "Release AKI" and pressing "OK" will simulate an actuation from the Interior Sensor.



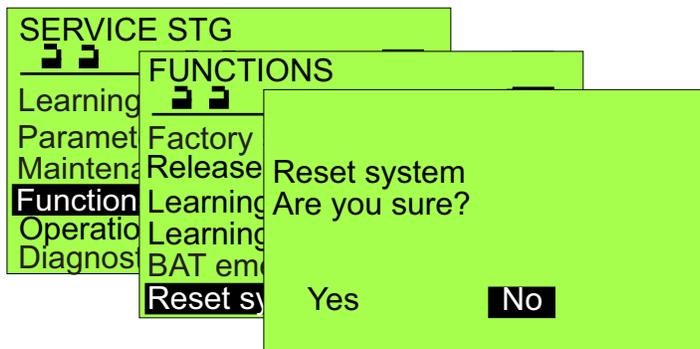
Initiates an acquisition of safety beam characteristics.



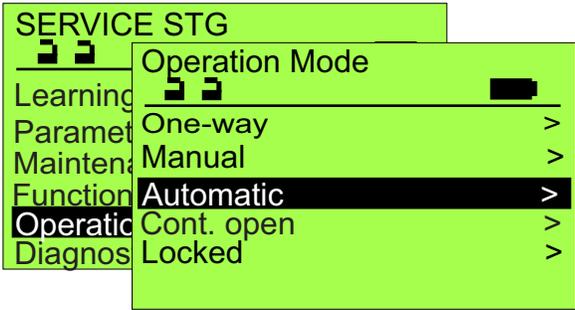
For use when initially commissioning a door, or significantly altering the mechanical characteristics of the door.



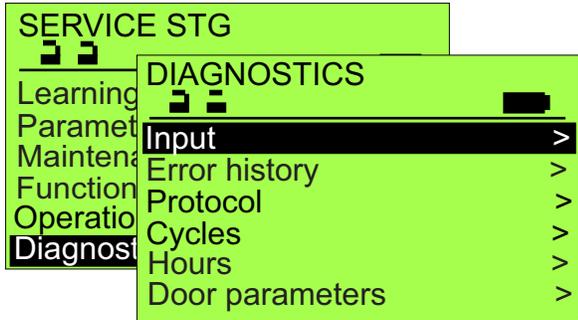
Used to test an optional battery backup.



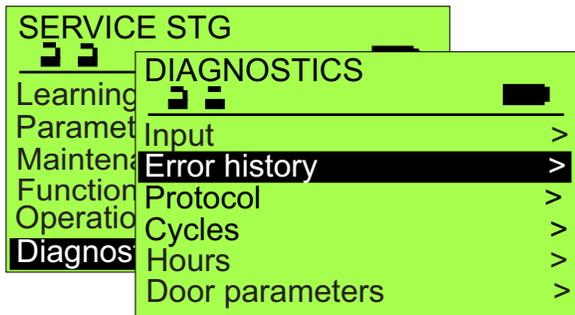
Minor reset to clear faults without requiring a calibration cycle.



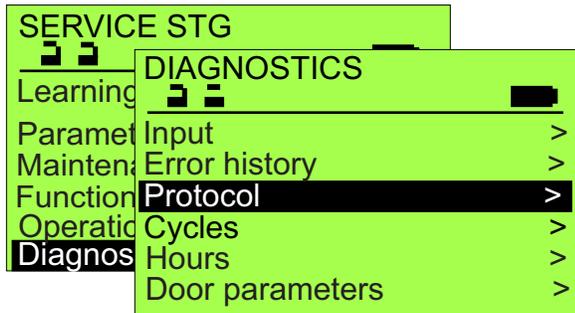
Indicates the current operational mode of the door.  
 Note this screen does not dynamically update in response to changes to the control panel.  
 The Status screen, **accessible** anytime the terminal is servicing the unit (STG), will dynamically update in response to changes to the control panel(s).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



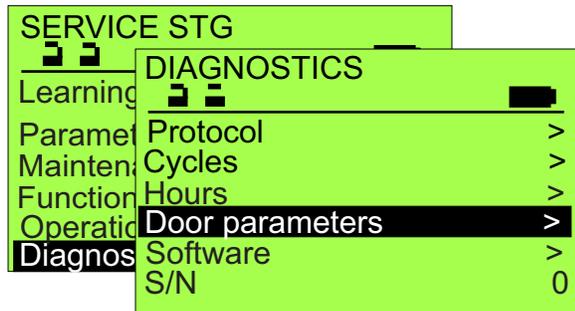
Will illustrate active inputs



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