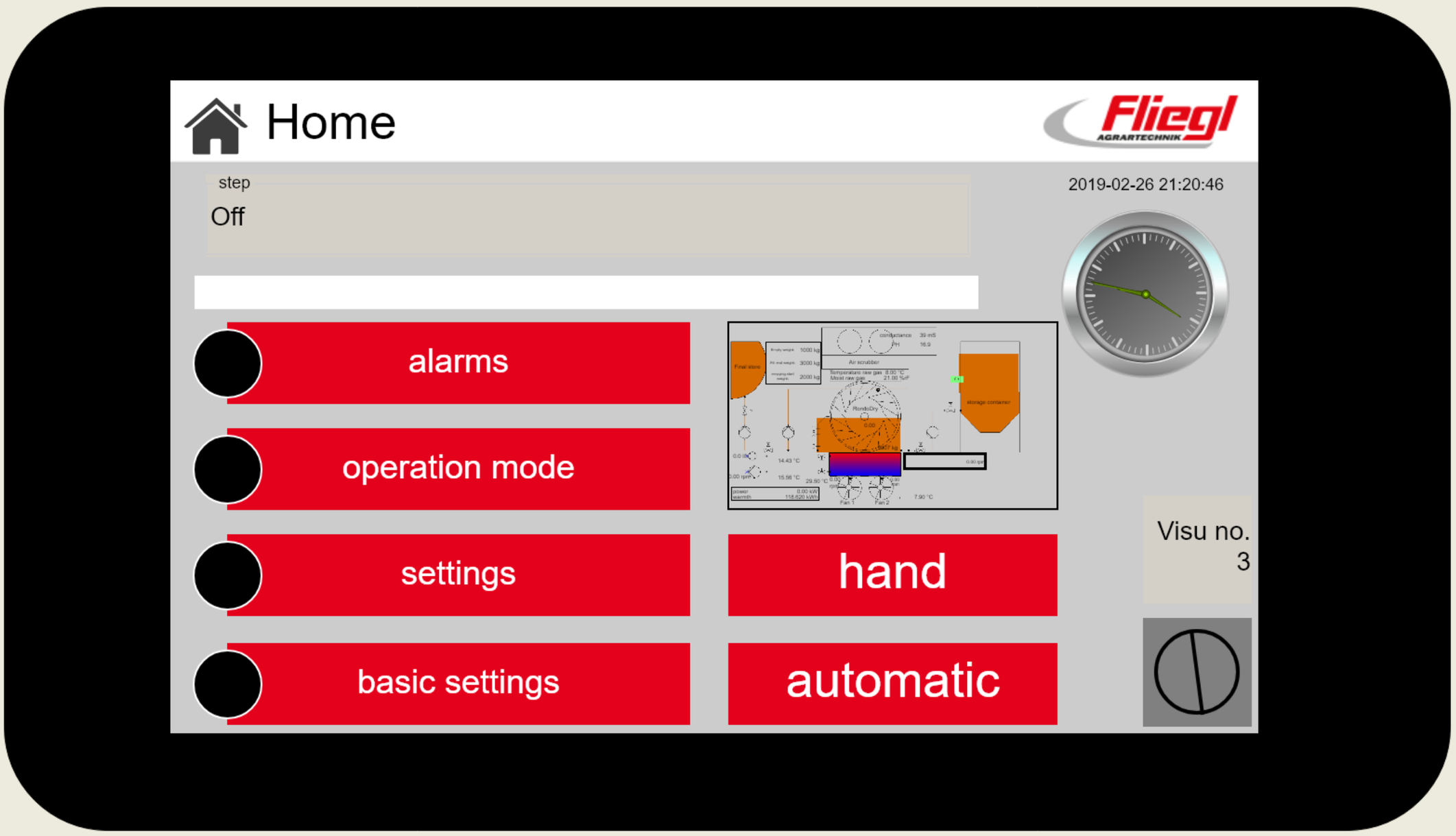
VERSION 2019

Instruction machine control

RondoDry



english

We are Fliegl.

www.fliegl.com

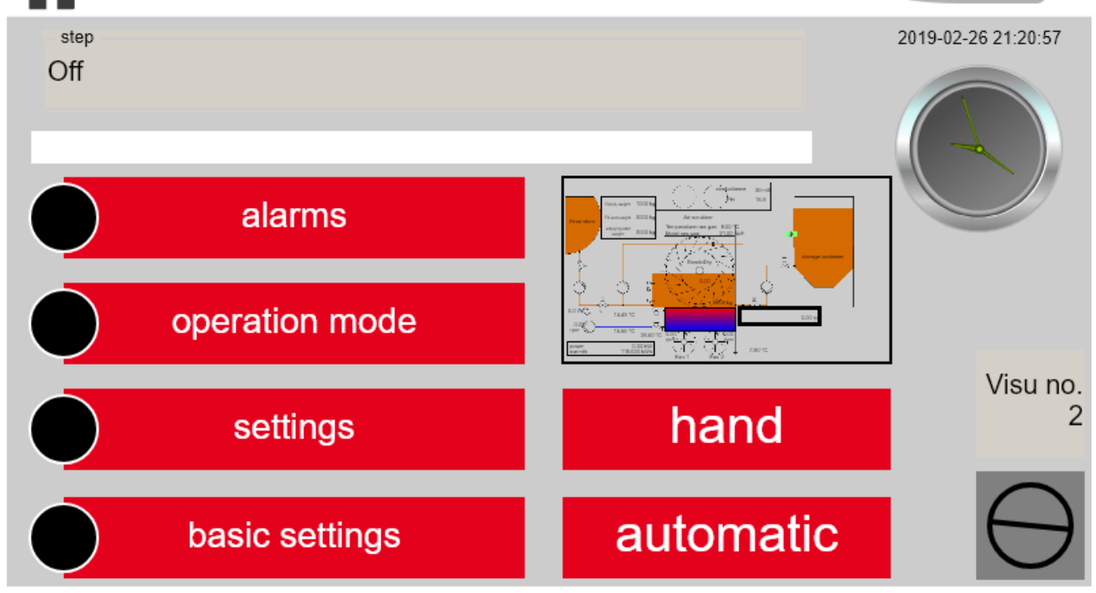
Dok. Nr. 2-103B07181.0
Vers. 1.0 St. 07/2018

start page

start page

The start page appears after commissioning the controller.
This symbol shows that the control is active (symbol rotates).
If the symbol does not move, a restart of the control is necessary.
The "Step" field always contains the currently active step from the step sequence or the current state.
By pressing the "home button" the user gets to the main page.
With the "Back button" the user gets back one level.
The "control active" symbol, the "home key", the "back key" and the "step" field are multiple used elements that always have the same meaning.

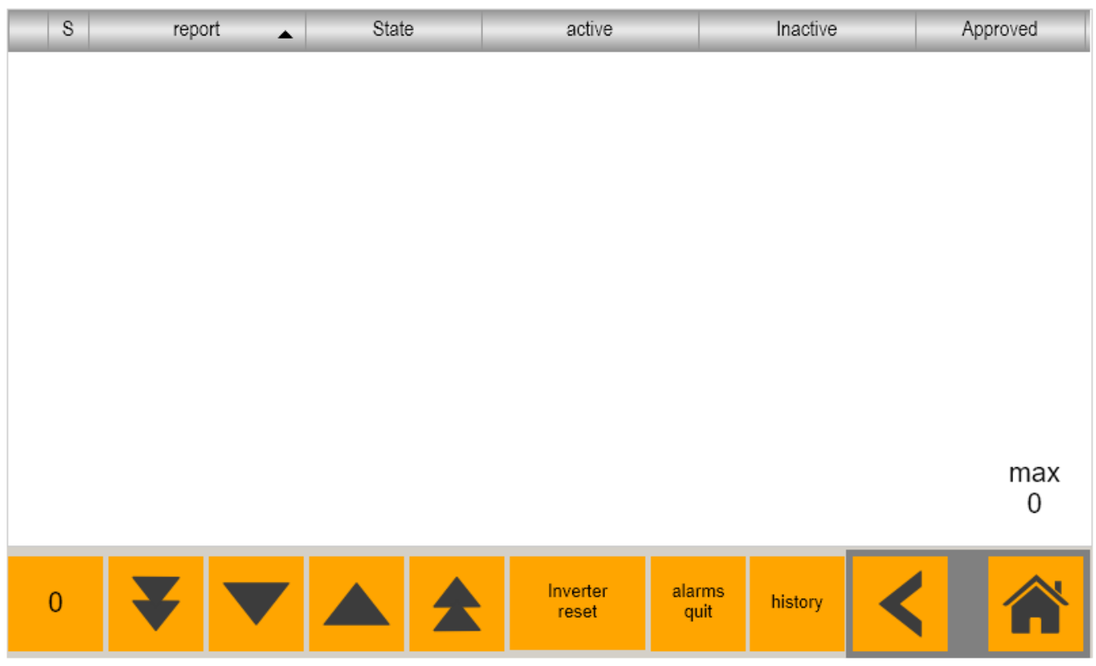
Home



Home

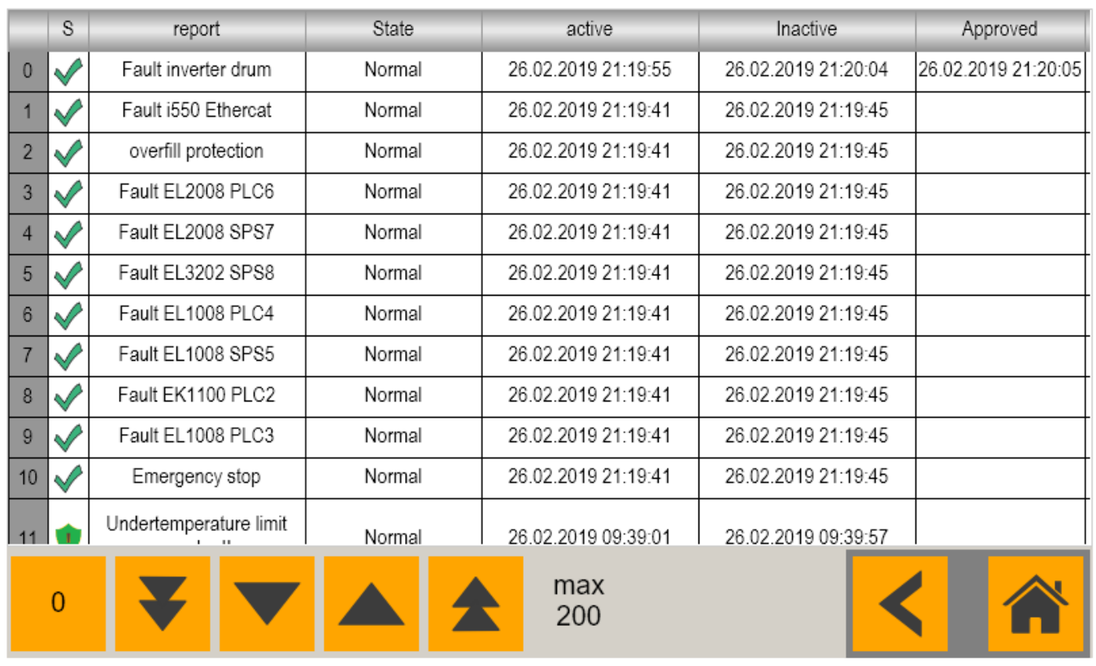
The following elements are shown on the main page:
+ current step
+ last accumulated message including time stamp
+ an overview of the system with current measured values (reduced view).
+ Alarms
+ Operating mode
+ Settings
+ Basic settings
+ HAND
+ AUTOMATIC
$R $Clicking this button takes you to the corresponding subitem.

: This icon indicates that an alarm is currently active.



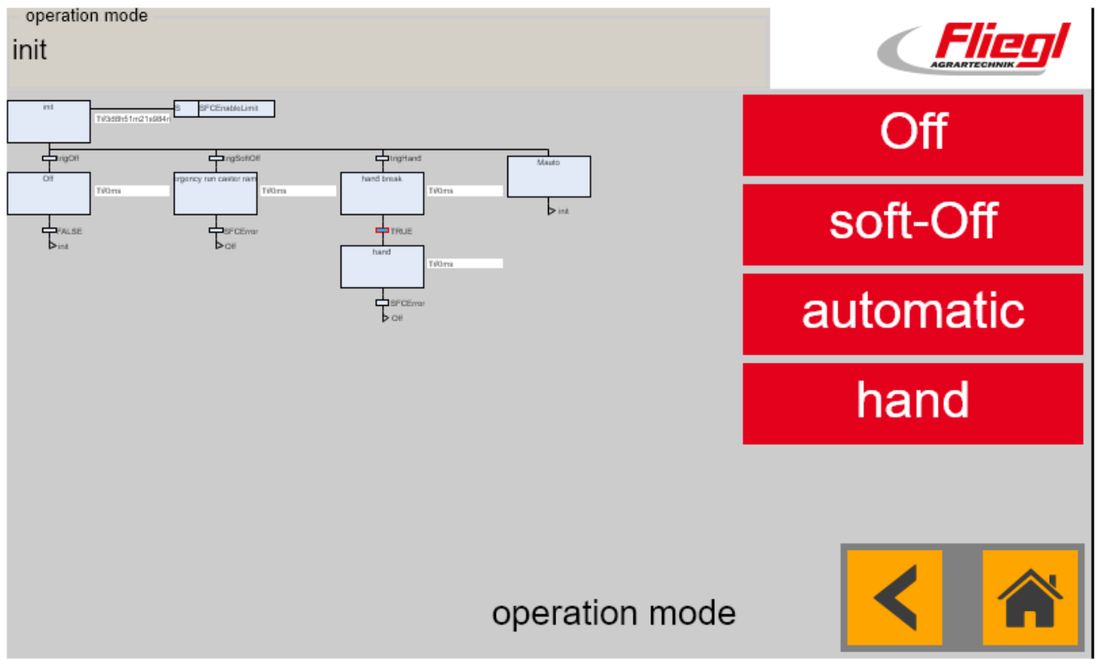
alarms

The "Alarms" page lists all active, unacknowledged alarms.
Through pressing the "Inverter reset" button, a reset of the frequency inverter for the lattice drum motor is carried out.
Touch the "Acknowledge Alarms" button, the active alarms are reset Alarms are acknowledged if they can be acknowledged.
The "History" button is used to display the active and past acknowledged alarms



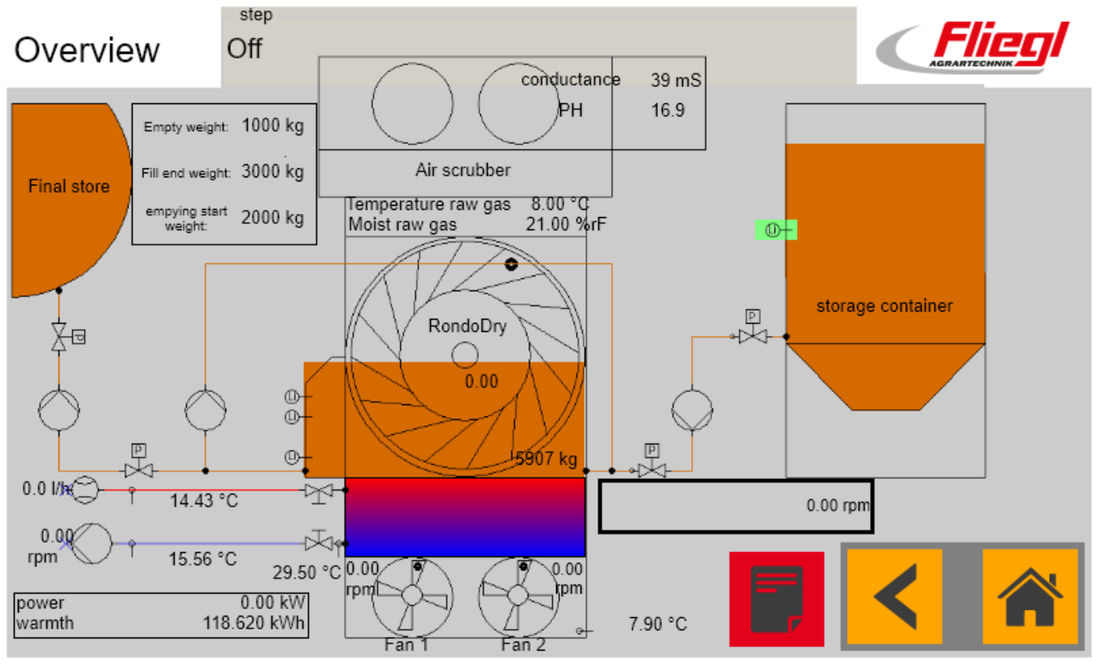
Alarms history

Under "History" the last 200 alarms with timestamp and status are listed.



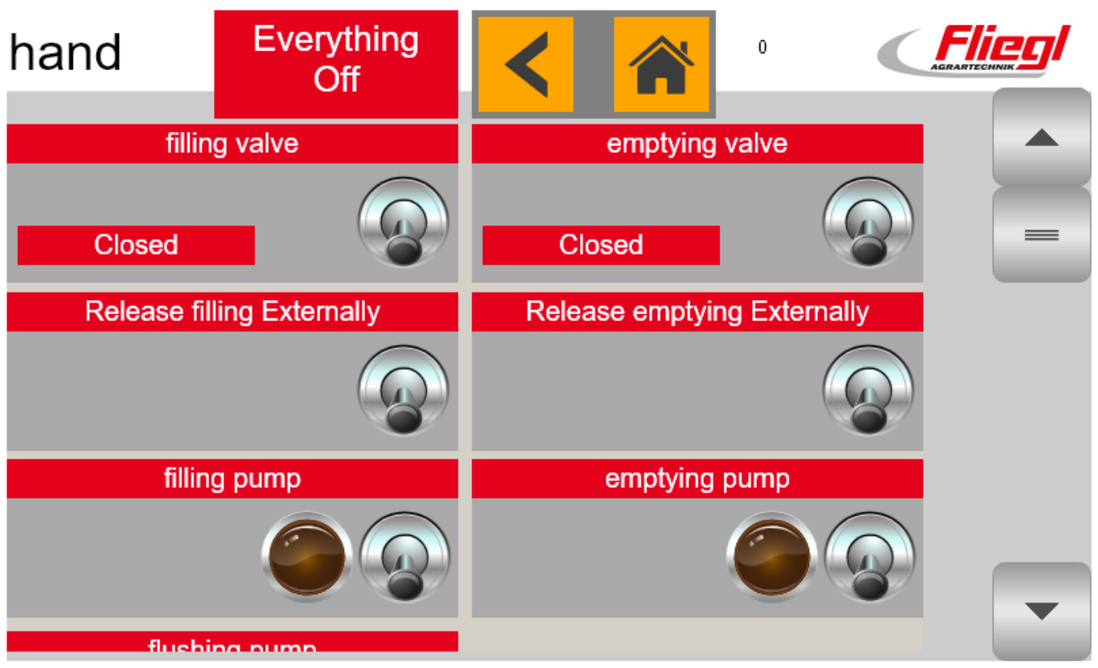
operation mode

Under "Operating mode", you can choose between the operating modes "OFF", "Automatic" and "Manual".
The corresponding operating mode is activated by touching the button.
If manual mode is activated, the individual actuators can be overridden Use the "Hand" button
(main page). The HAND mode must not be used for maintenance.
The mode HAND is automatically exited after a certain time, then all actuators go to $"OFF ". RISK OF INJURY!!!



Overview

The overview shows the actual and set values of the controller.

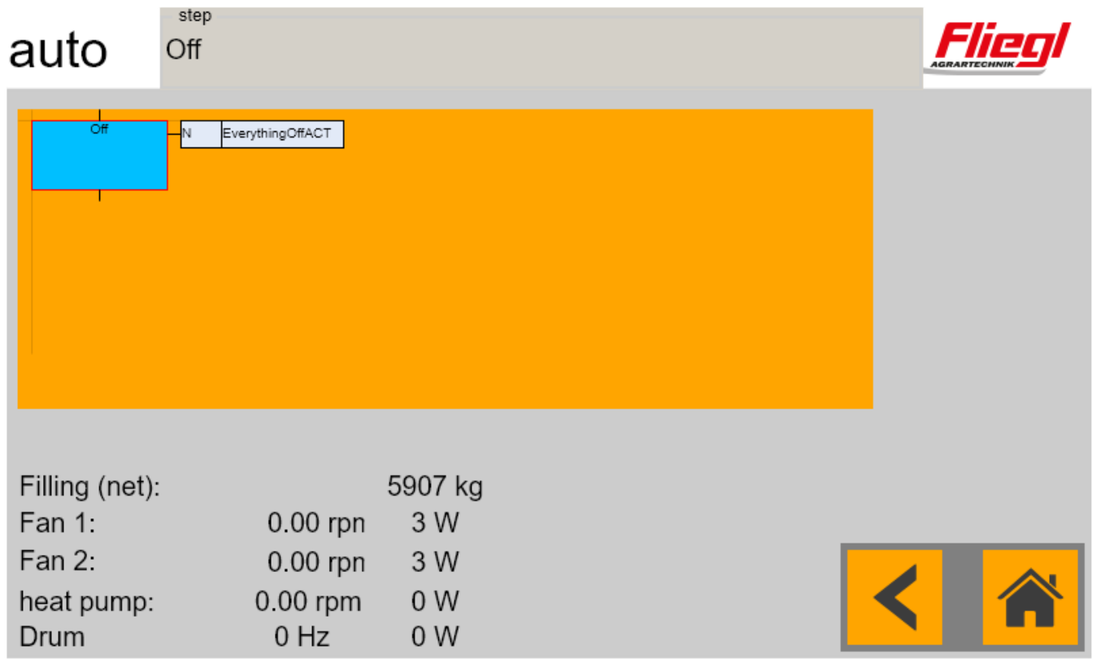


hand

If the "Manual" operating mode is active, pressing the switch opens and closes the corresponding actuator, or switches it on and off.
A setpoint is specified via the "Setpoint" buttons
The "All Off" button is used to set the desired actuator "All drives are switched off and slide closed.

When operating mode "Automatic" or "Off" is active, pressing the button has no effect.

: No protective devices are active on the software side in manual mode.



automatic

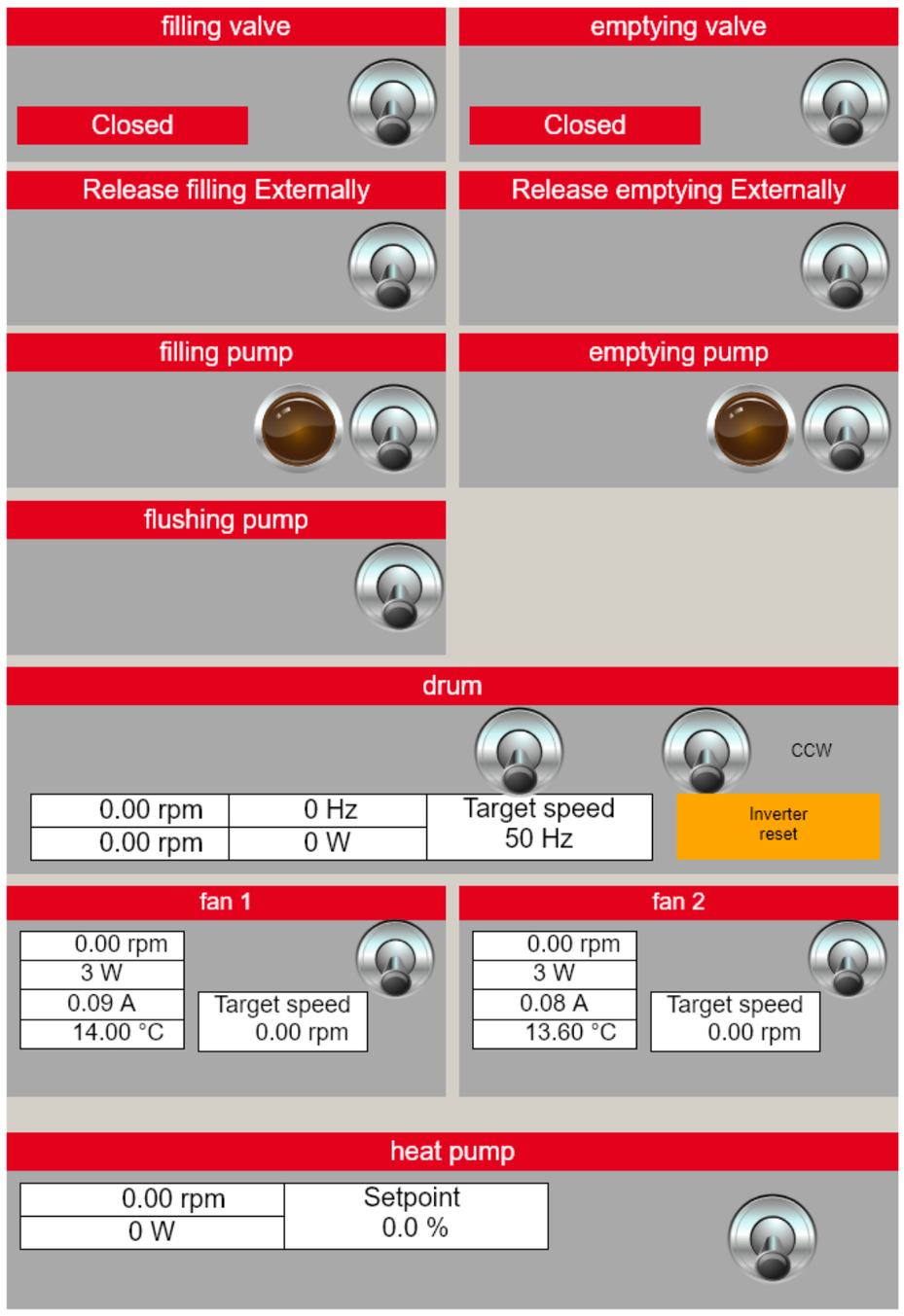
Here the actual values are shown. The "Odur Mode" and "Normal Mode" areas indicate which mode is currently active in automatic mode.
Coad setting for the automatic mode can be made under "Main Menu Settings."

hand

If the "Manual" operating mode is active, pressing the switch opens and closes the corresponding actuator, or switches it on and off.
A setpoint is specified via the "Setpoint" buttons
The "All Off" button is used to set the desired actuator "All drives are switched off and slide closed.

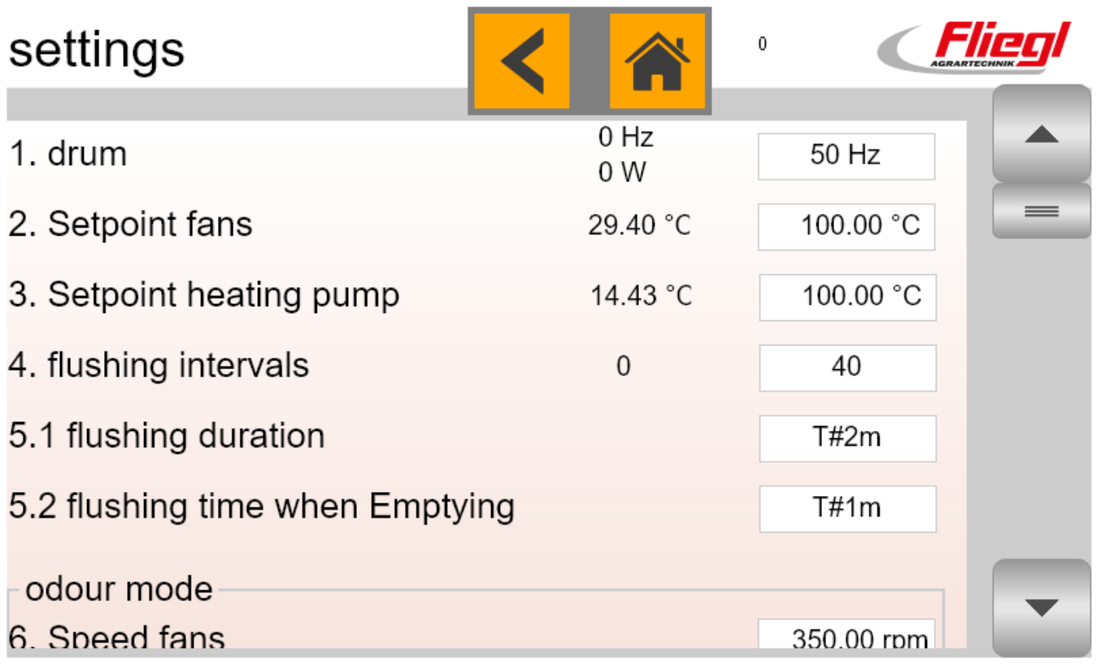
When operating mode "Automatic" or "Off" is active, pressing the button has no effect.

: No protective devices are active on the software side in manual mode.

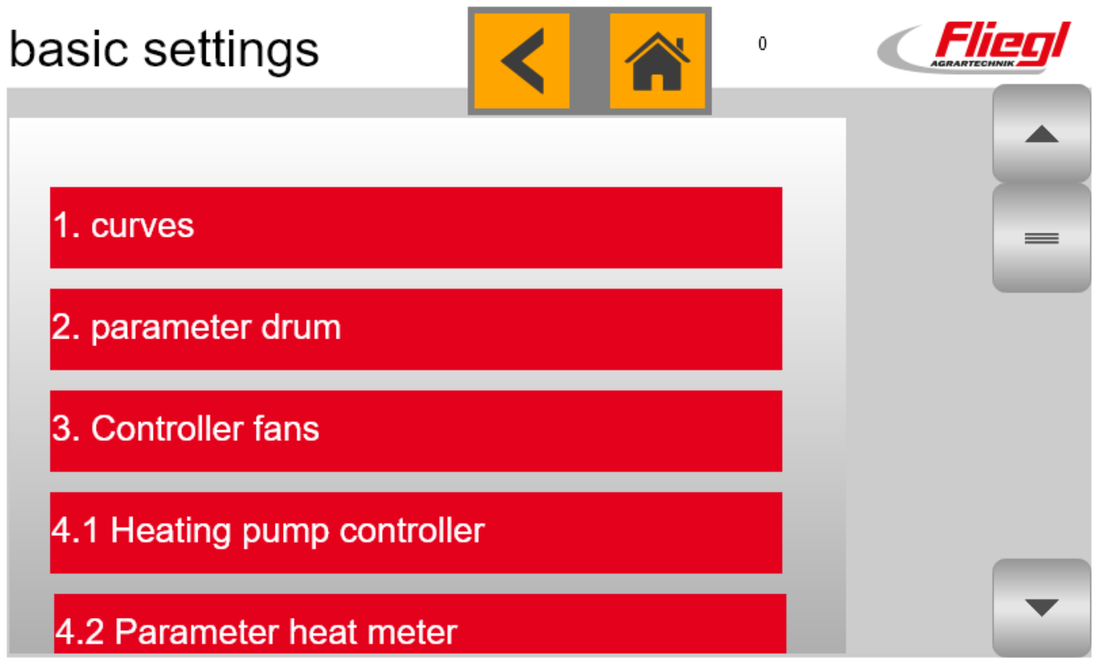


hand frame

The other points are reached by scrolling down.



settings



basic settings

settings

1. drum	0 Hz 0 W	50 Hz
2. Setpoint fans	29.40 °C	100.00 °C
3. Setpoint heating pump	14.43 °C	100.00 °C
4. flushing intervals	0	40
5.1 flushing duration		T#2m
5.2 flushing time when Emptying		T#1m

odour mode

6. Speed fans	350.00 rpm
7. Time reduced speed	T#0ms

Weights (net)

8. full weight	3000 kg
9. emptying weight	2000 kg
10. Empty weight	1000 kg

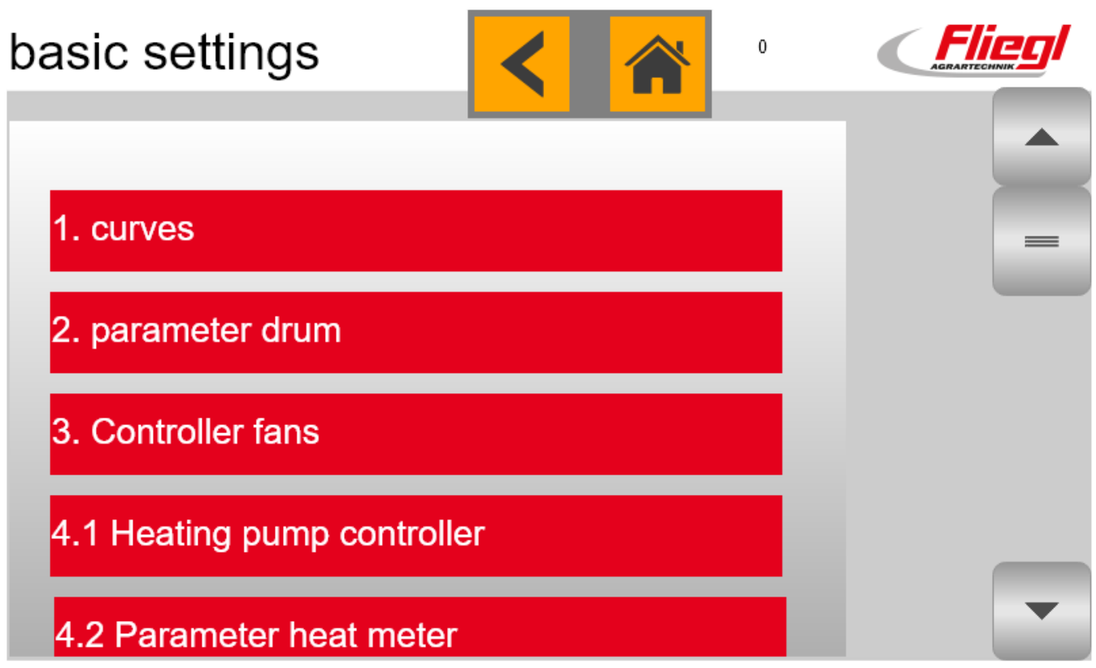
Timers

	min	Max
11. Filling	T#1s	T#30s
12. Drying	T#1s	T#30s
13. Emptying	T#1s	T#30s

Valve

14. Monitoring time limit positions	T#2s500ms
14.1 Monitoring time external	T#2s500ms
15. Time delay to pump	T#5s
16.1 Time emergency run	T#1h
16.2 Time emergency run caster ramp	T#1m
17. Maximum time hand active	T#15m
18. Maximum time login	T#5m
19. Folder log files	batch1

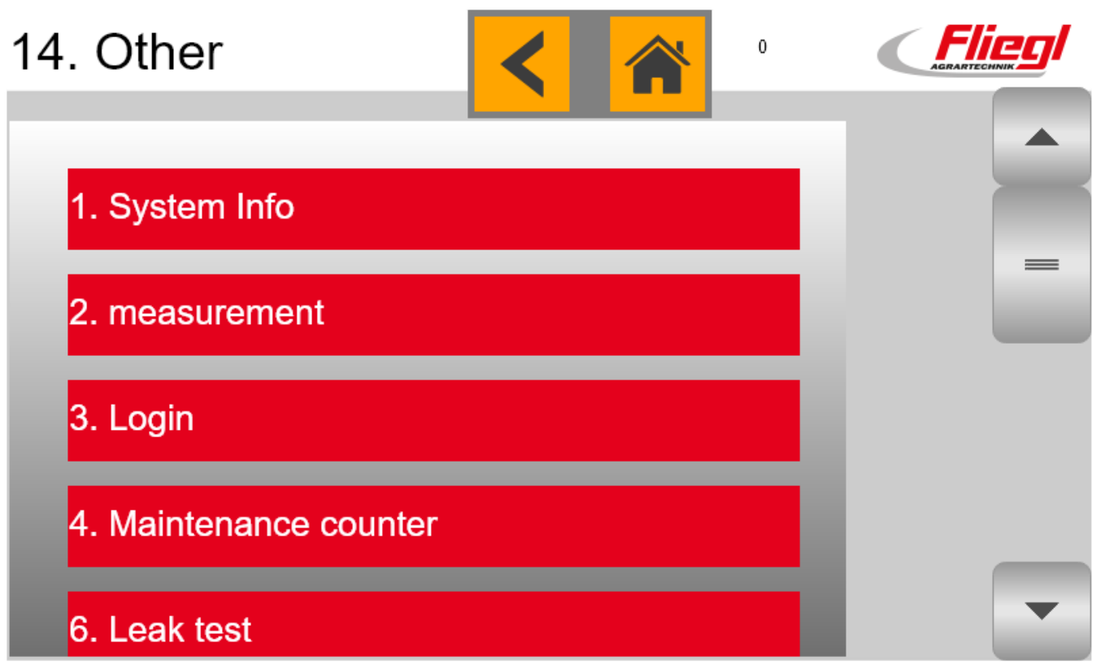
1. Sets the drum rotation frequency
2. Specifies the setpoint for heat dissipation by the fans.
3. Specifies the setpoint for the control of the heating circulating pump.
4. Sets after how many filling and draining cycles a flushing process takes place.
5. Sets the amount of time that will be flushed.
6. Sets the fan speed at which the fans run during the odor mode.
7. Sets the amount of time the fans are in the odor mode at reduced speed
to run.
8. Sets the full weight.
9. Sets the draining weight.
10. Sets the curb weight.
11. Sets the maximum time for the filling process.
12. Sets the maximum time for the evaporation process.
13. Sets the maximum time for the draining process.
14. Sets the monitoring time for reaching the end position of the slide valves
15. Sets the time delay between reaching the end position and pump release
16. Sets the length of time during which the system enters the operating mode "emergency operation".
17. Sets the maximum time for the manual mode.
18. Sets the maximum time for login (user).
19. Folder for log files



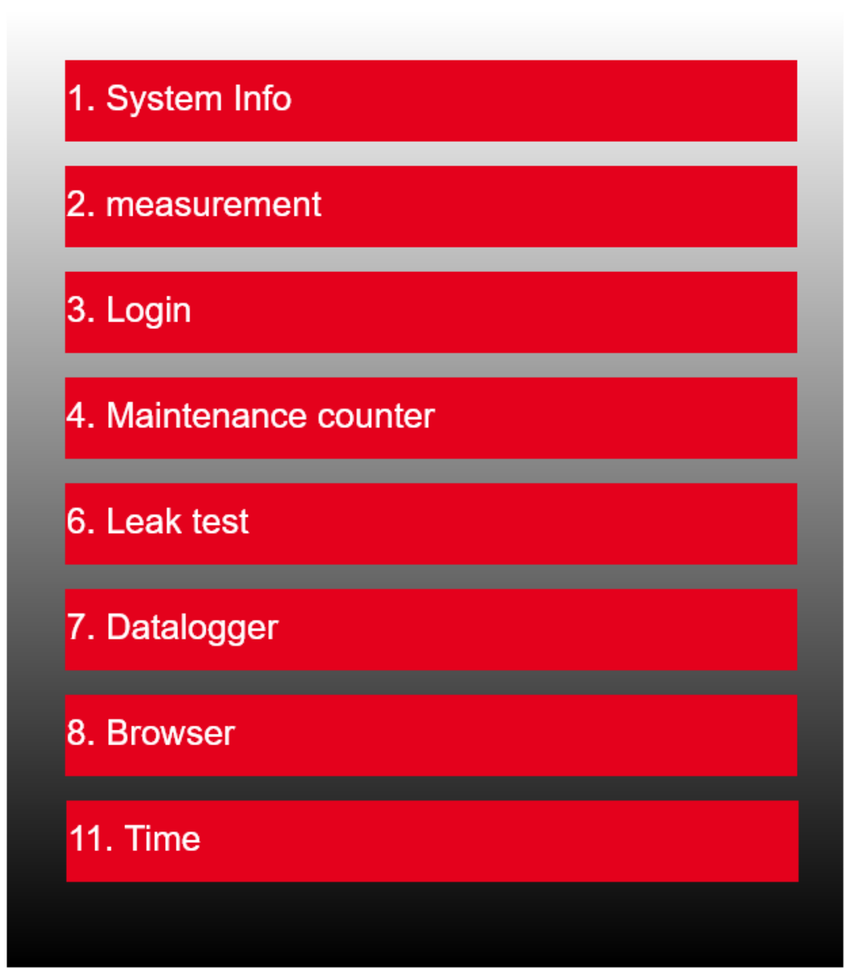
basic settings

basic settings frame

The other points are reached by scrolling down.

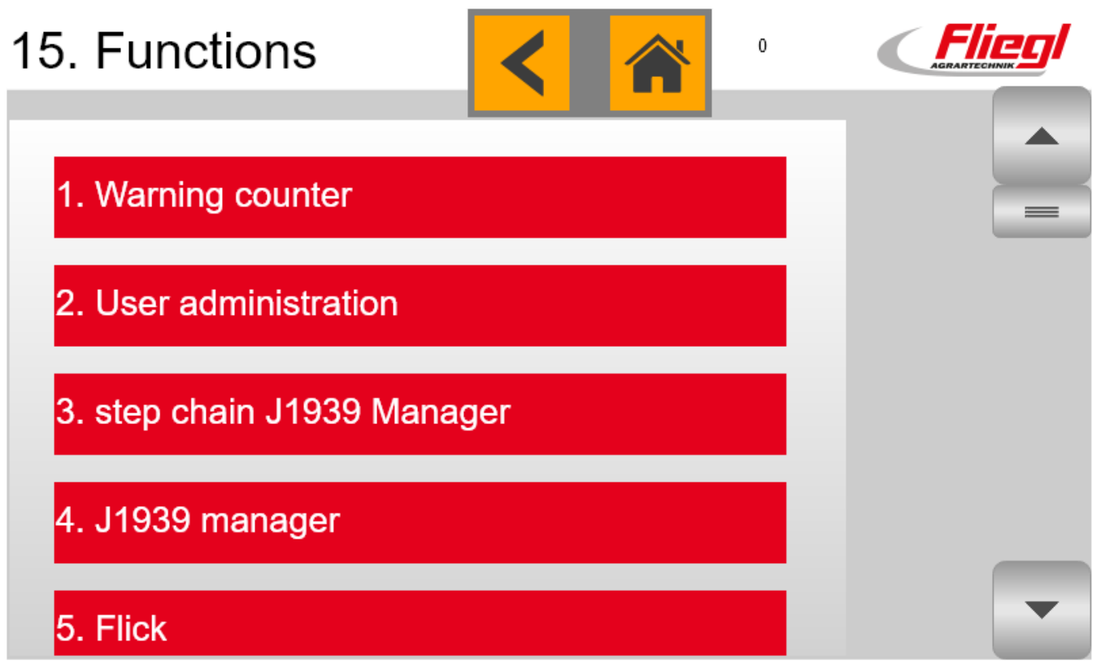


14. Other

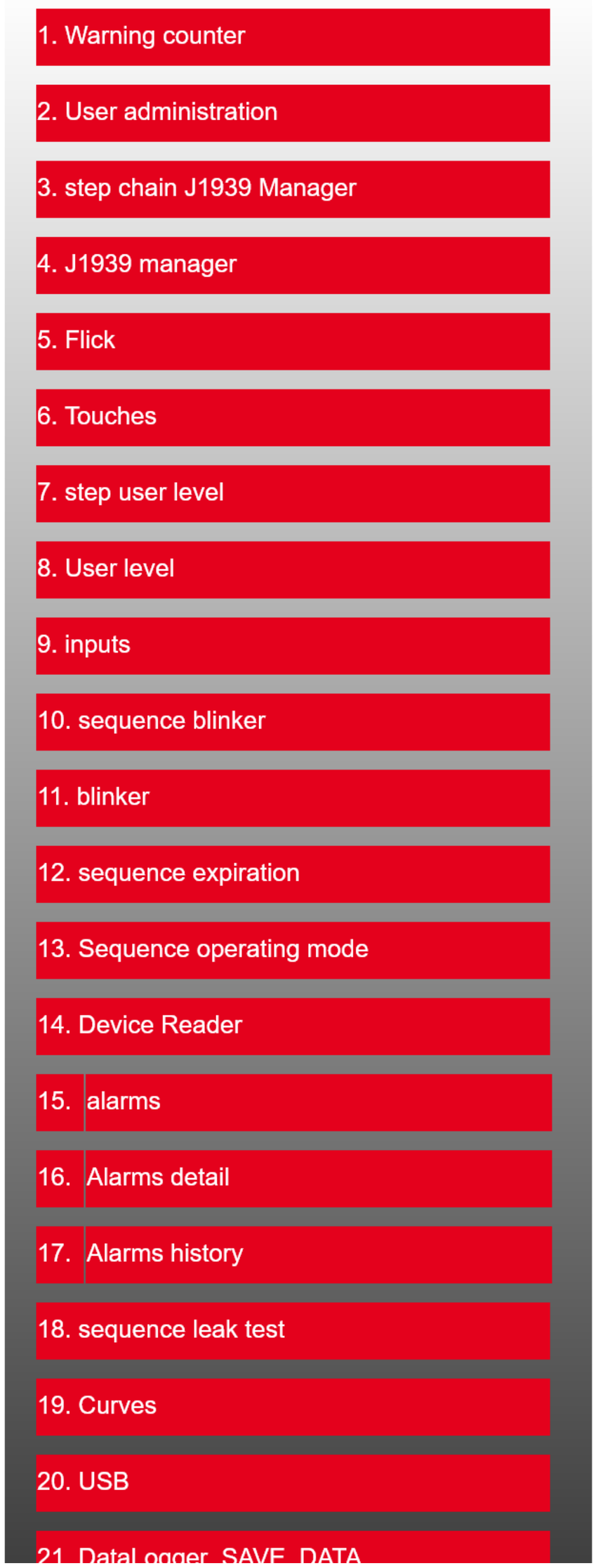


14. Other frame

The other points are reached by scrolling down.



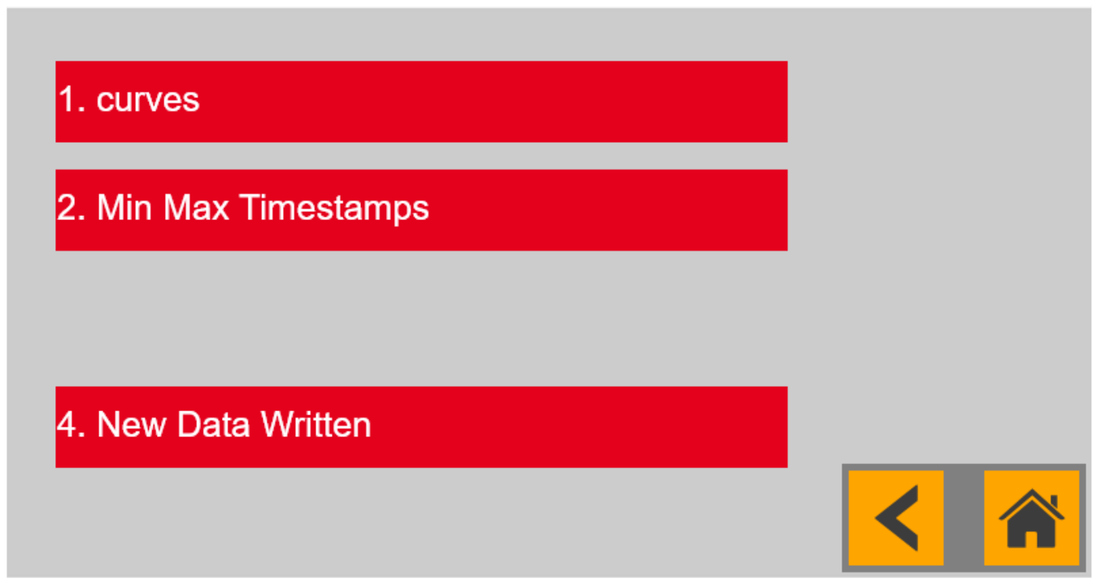
15. Functions



15. Functions frame

The other points are reached by scrolling down.

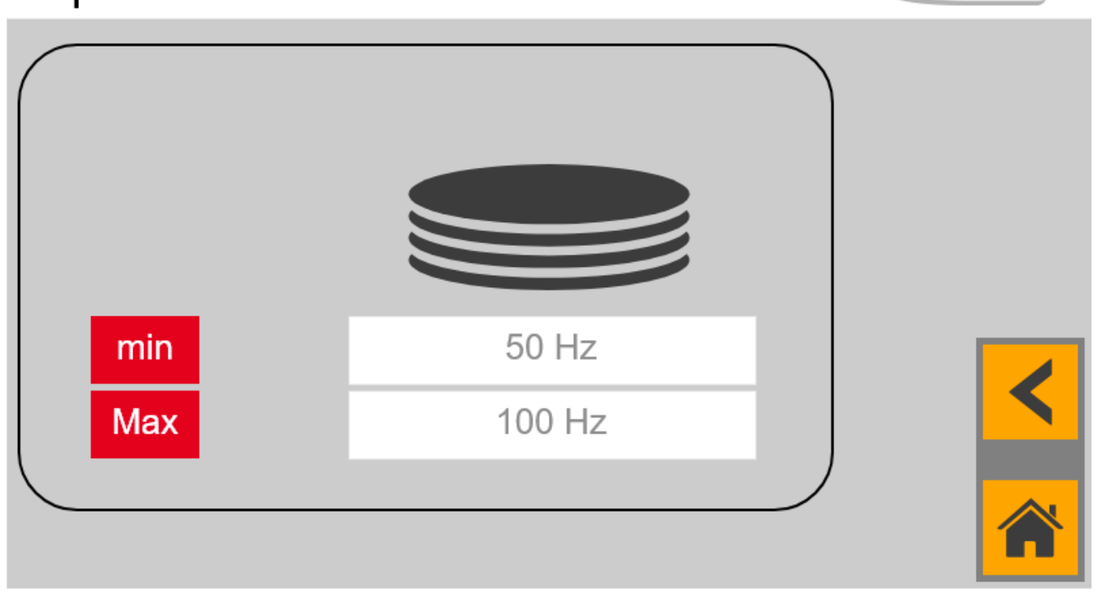
1. curves



1. curves

Curves graphically displays the recorded values of the listed sensors or loads.

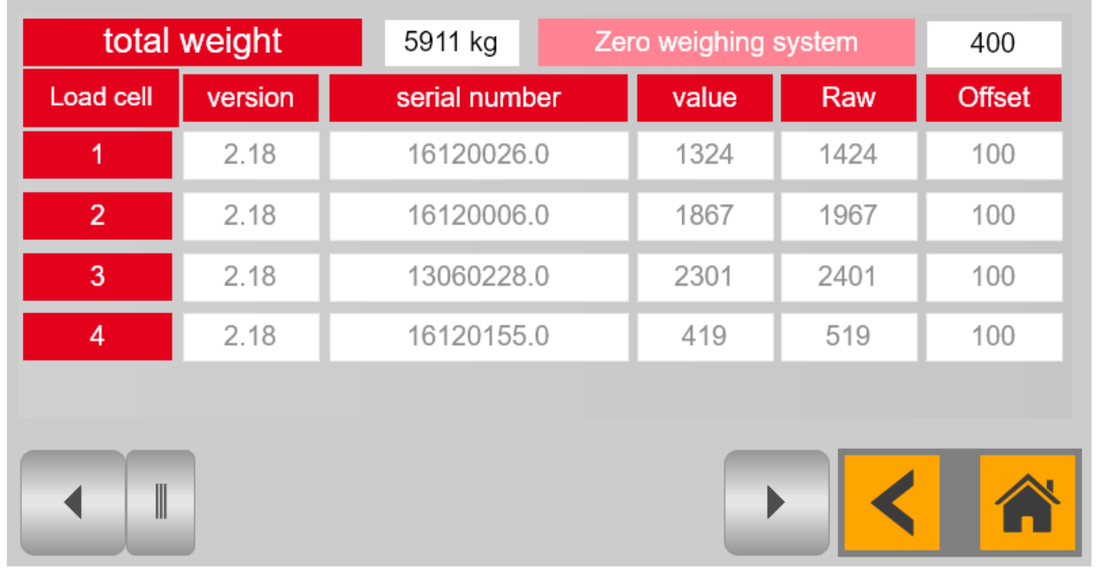
2. parameter drum



2. parameter drum

Min and max limit the setpoint input in manual mode and automatic mode.

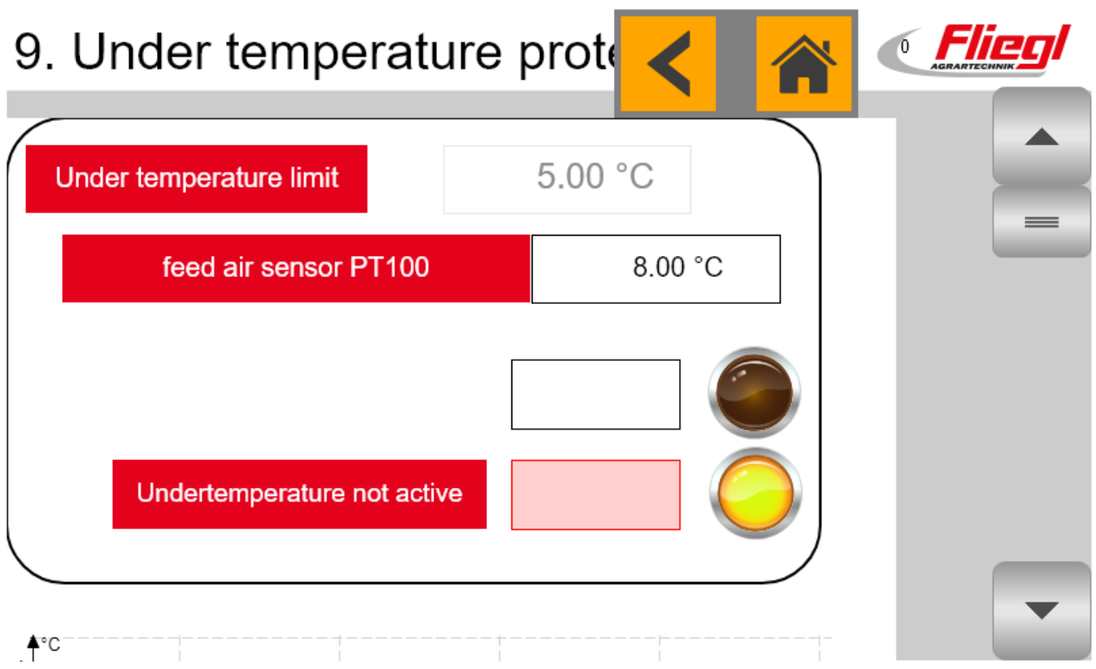
5. Parameter weighing system



5. Parameter weighing sys

Used to adjust the load cells.
Valve zero:
Z.B. every half year (see maintenance / care interval list, see maintenance counter), the weighing system must be zeroed by the operator. The device must be completely empty and clean for this purpose.
The adjustable values for the individual load cells are set by Fliegl at the factory or at startup.

9. Under temperature prote



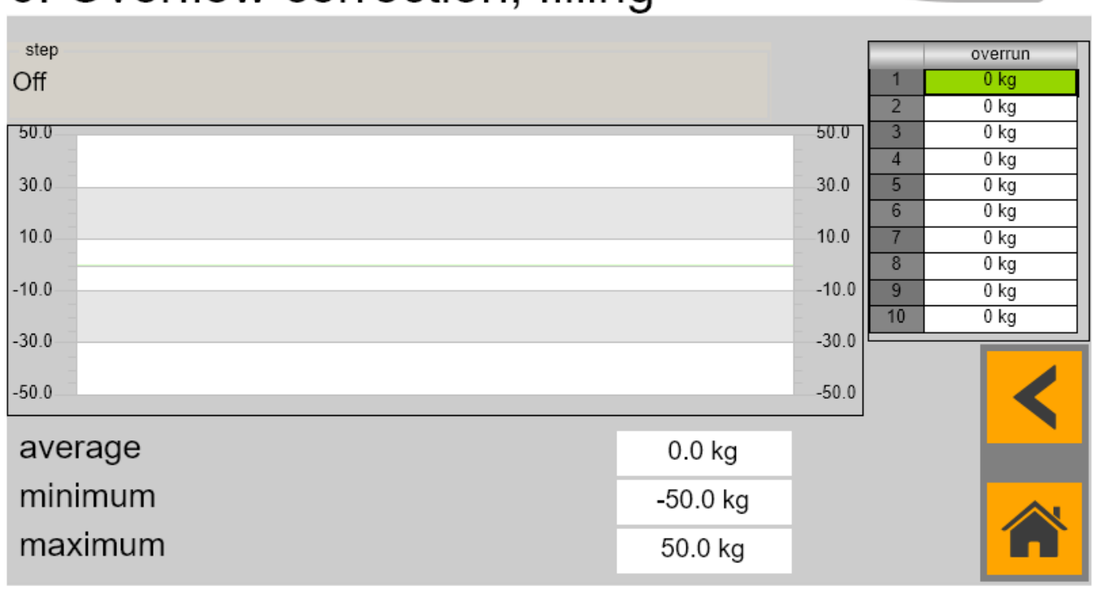
9. Under temperature prote

Undertemperature limit can be set under "Undertemperature protection."
When the set low temperature is reached, the low temperature protection becomes active.
Sou both the supply air (ambient air) and the set low temperature limit value are displayed in the curve below the "Undertemperature protection" overview R $N
$RNote:

FThe operator is responsible for frost protection. The equipment regulations of the heat exchanger manufacturer must be adhered to.
Sould no heat be left on the dryer for an extended period of time, it is recommended that the system be completely emptied (liquid manure and heating water).

Scroll down to see the outside temperature during the day

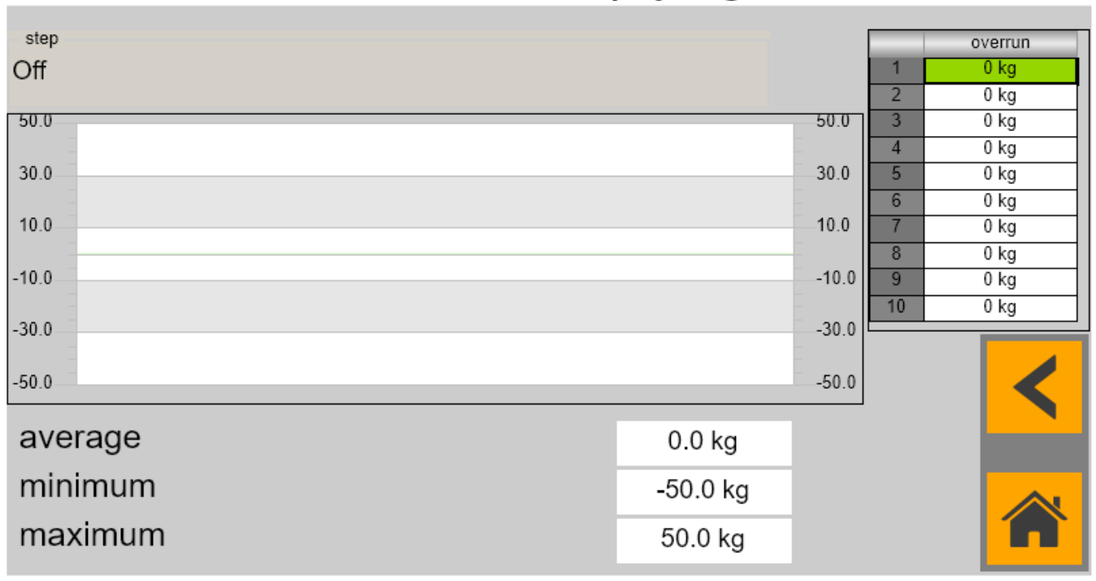
6. Overflow correction, filling



6. Overflow correction, filling

The "Overrun Correction" is used to compensate for the overflow of the filling pump
The controller detects the weight of the material that was filled in by the overrun (difference to the setpoint "full weight").
The deviations are recorded per cycle and from this the average of the last 10 cycles is formed. The overrun correction causes correspondingly less material to be filled in to correct the amount that has been filled too much by the overrun.

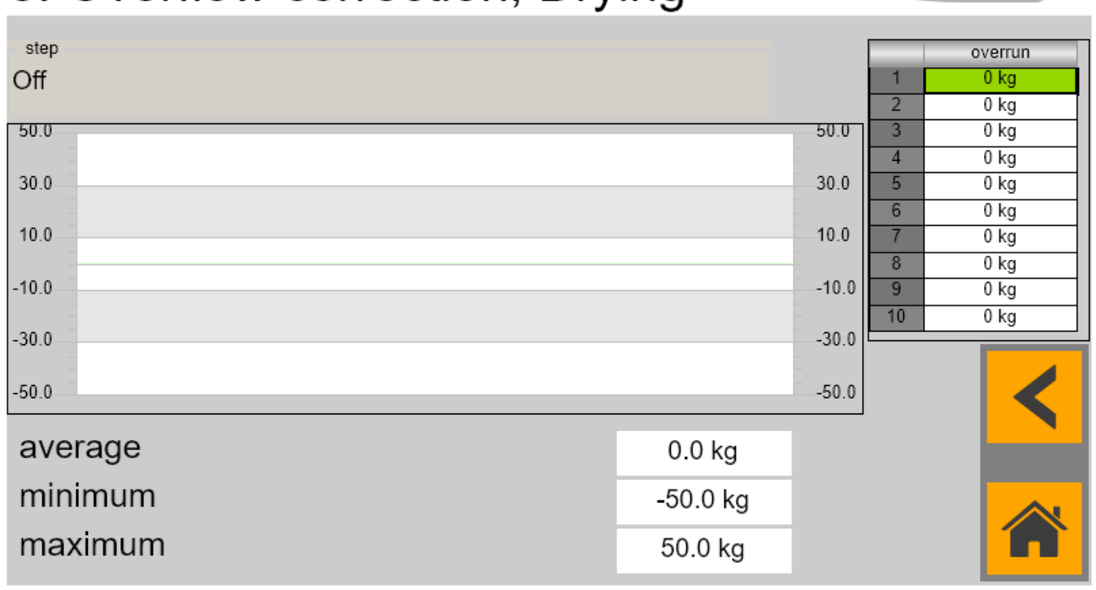
7. Overflow correction, emptying



7. Overflow correction, emptying

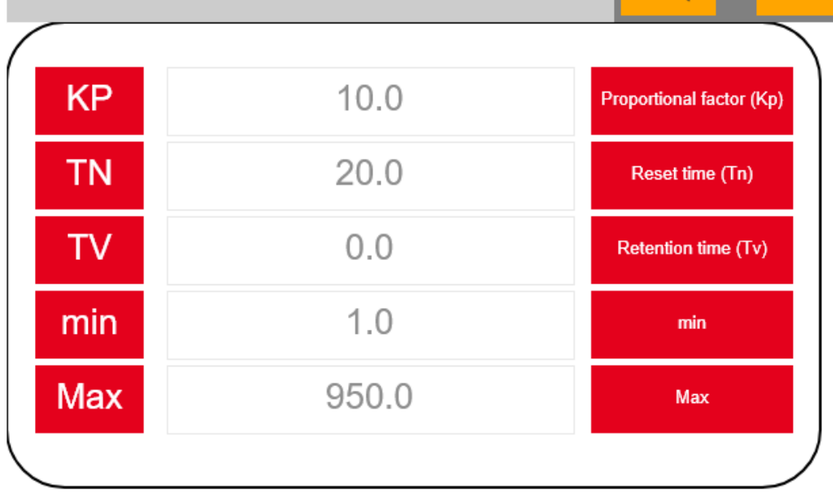
Like "Overrun Correction", only for the emptying process.

8. Overflow correction, Drying



8. Overflow correction, Drying

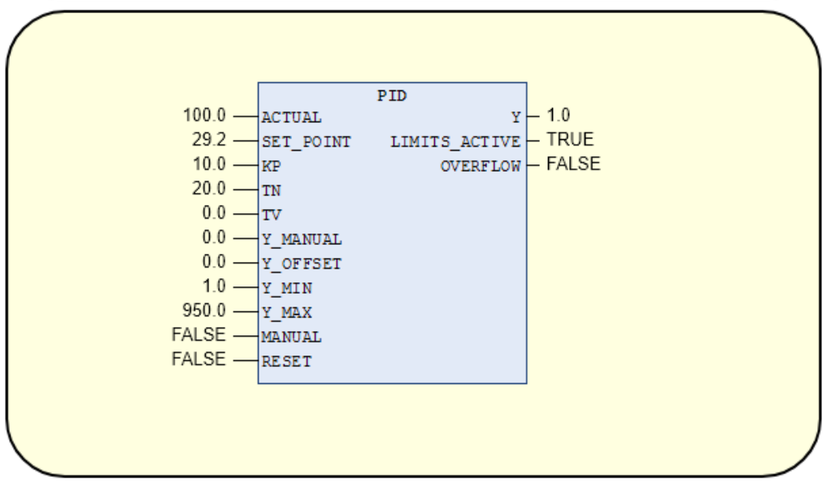
Like "Overrun Correction", only for the drying process.

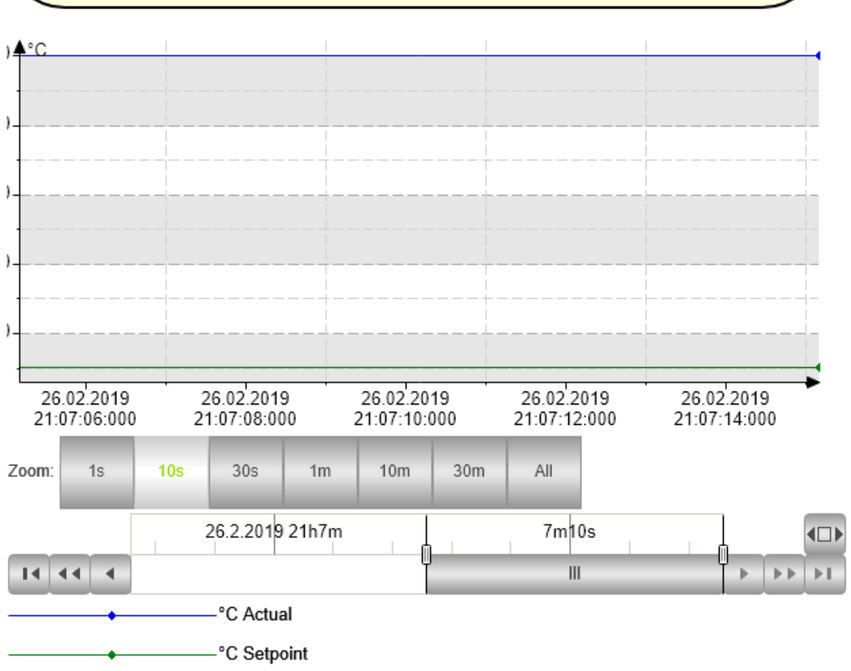


3. Controller fans

Here, the control parameters for the PID controller of the fans can be set.

KP
10.0
Proportional factor (Kp)
TN
20.0
Reset time (Tn)
TV
0.0
Retention time (Tv)
min
1.0
min
Max
950.0
Max

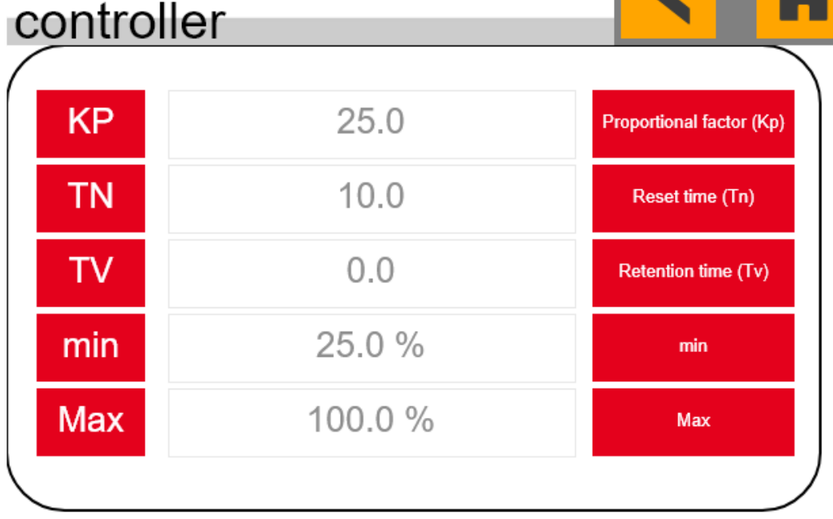


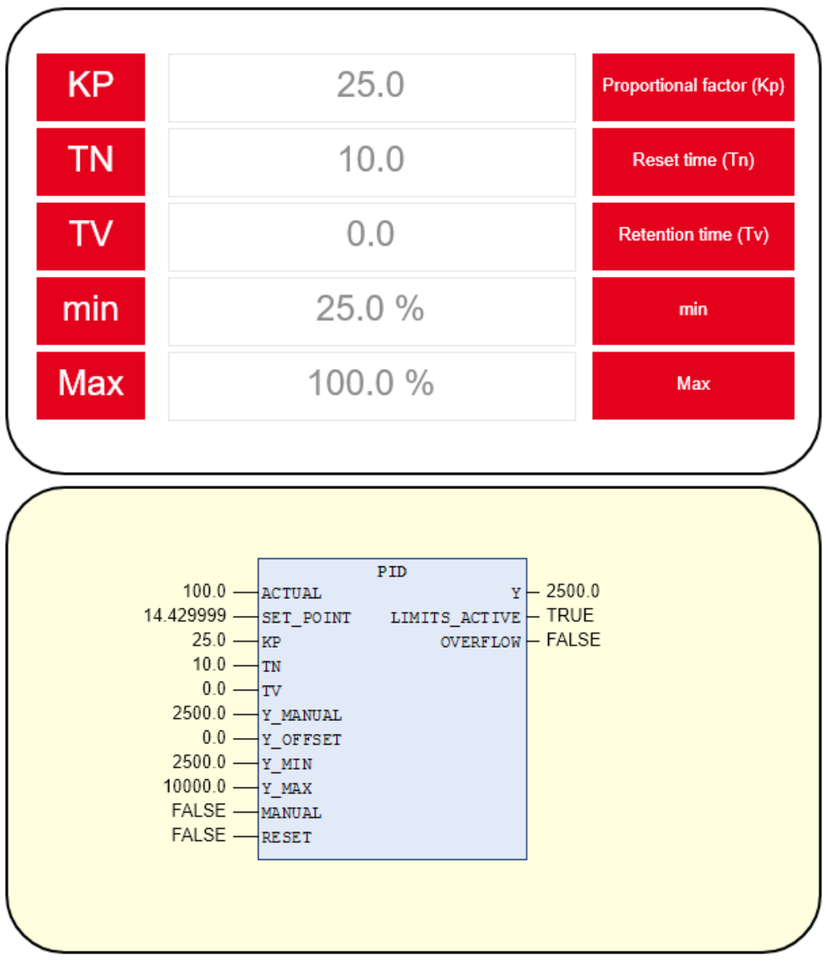


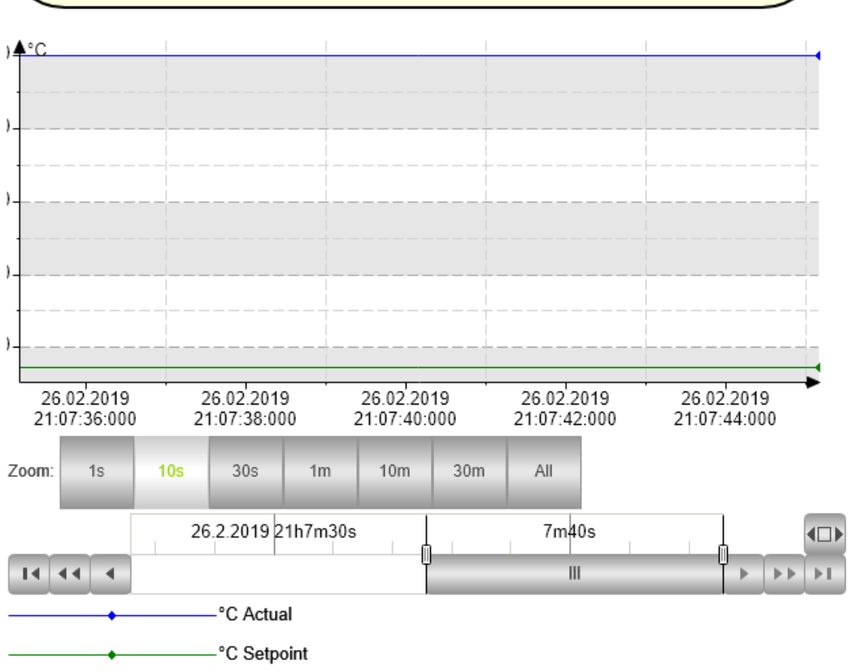
3. Controller fans frame

It is recommended to change the factory settings or the default values set by the Fliegl installation engineer only in consultation with the local heating engineer.

4.1 Heating pump controller





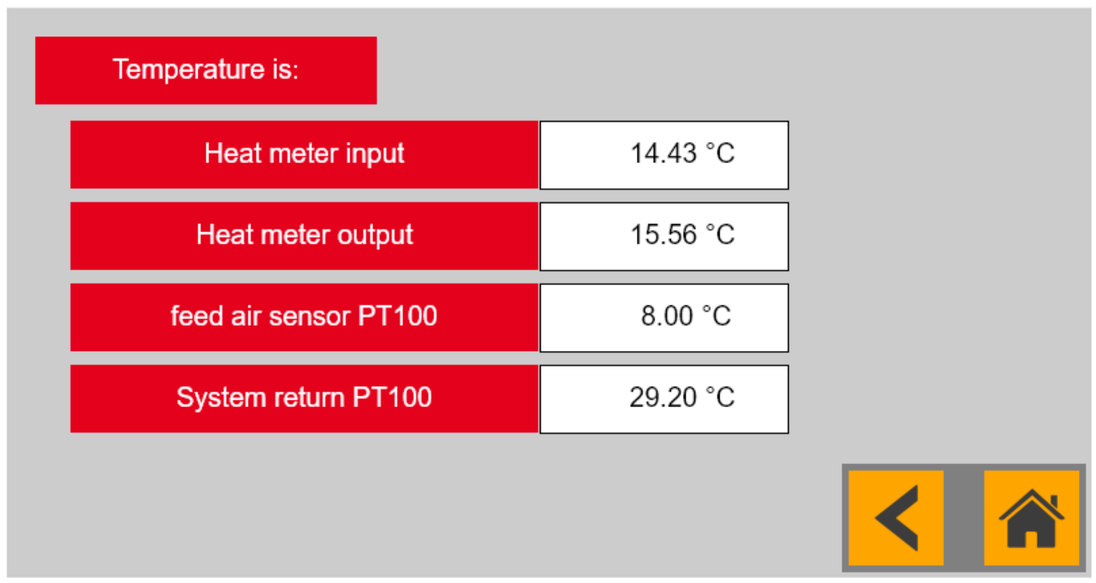


4. Controller heating pump

Here, the control parameters for the PID controller of the heating circulating pump can be set.

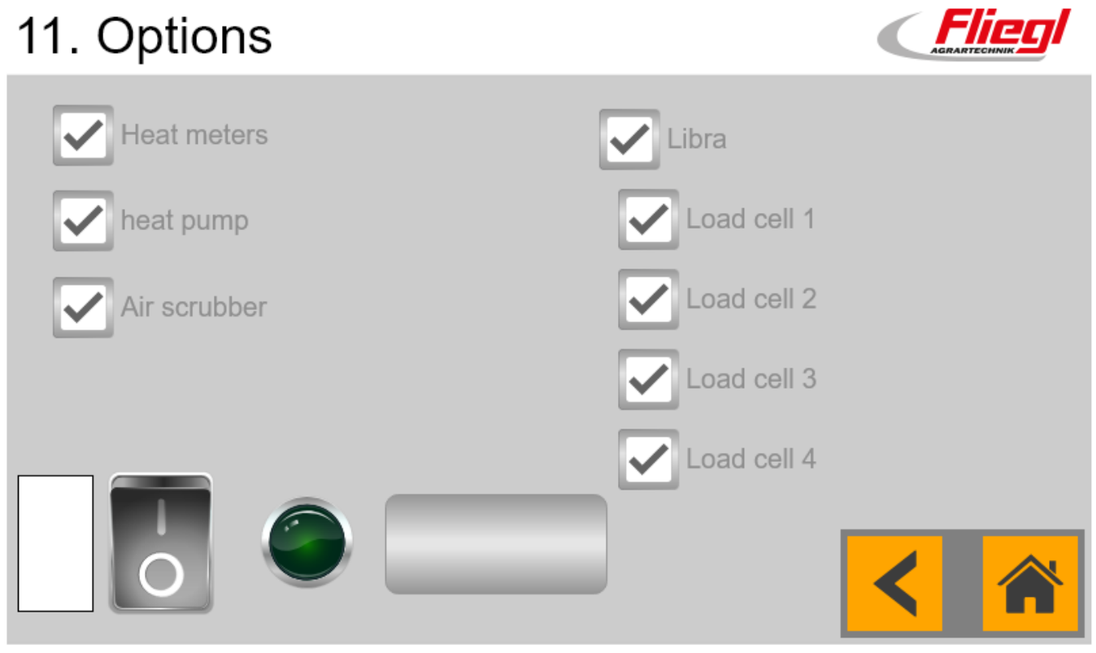
4. Controller heating pump frame

It is recommended to change the factory settings or the default values set by the Fliegl installation engineer only in consultation with the local heating engineer.



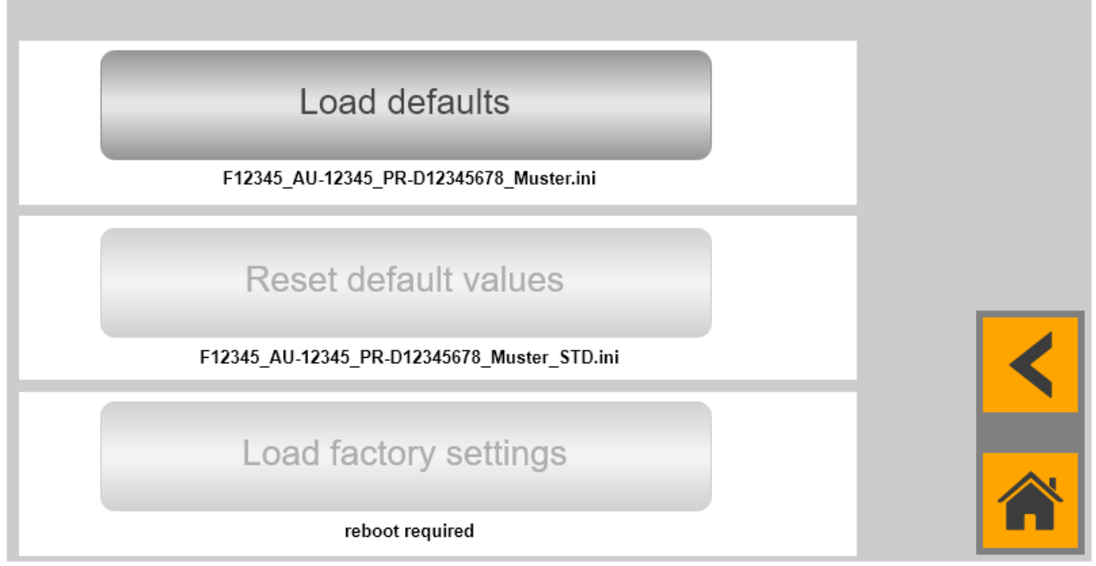
10. Temperature readings

Shows the current ACTUAL measured values of the temperature sensors installed in the system.



11. Options

Individual system components can be selected and deselected under the menu item "Options."
The load cells can be individually selected and deselected
To select or deselect one of the options, the gray field must be pressed to operate the touch display + select the boxes (operation via multitouch).
Sould the operation be done with a mouse over a computer screen, the gray area can be permanently switched on via the switch I / O.

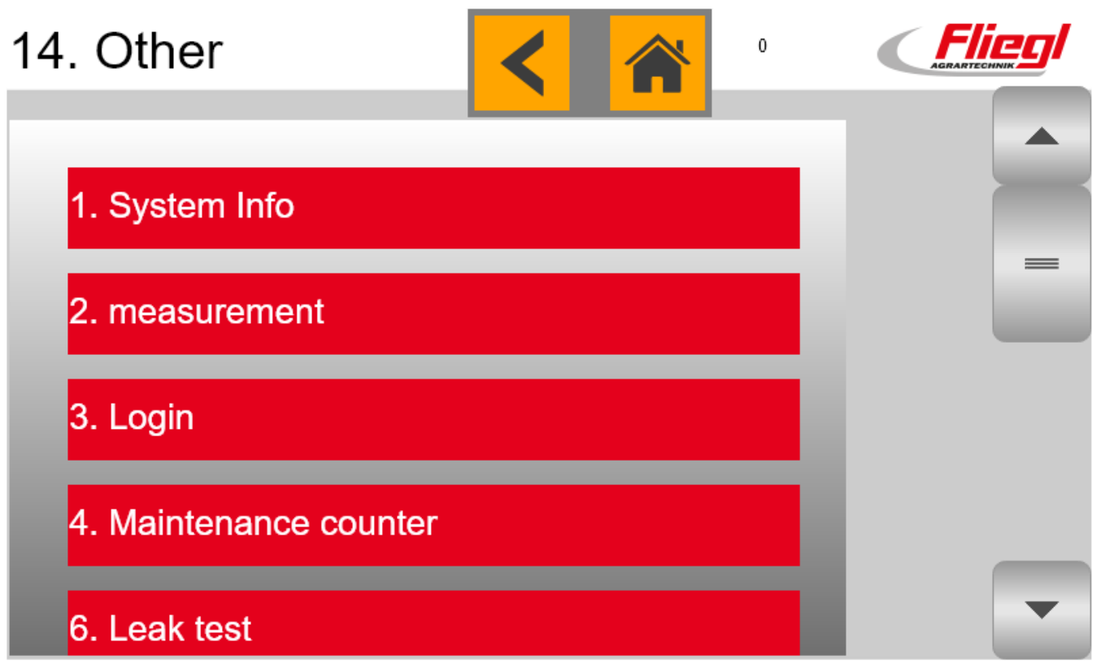


12. Set / load default value

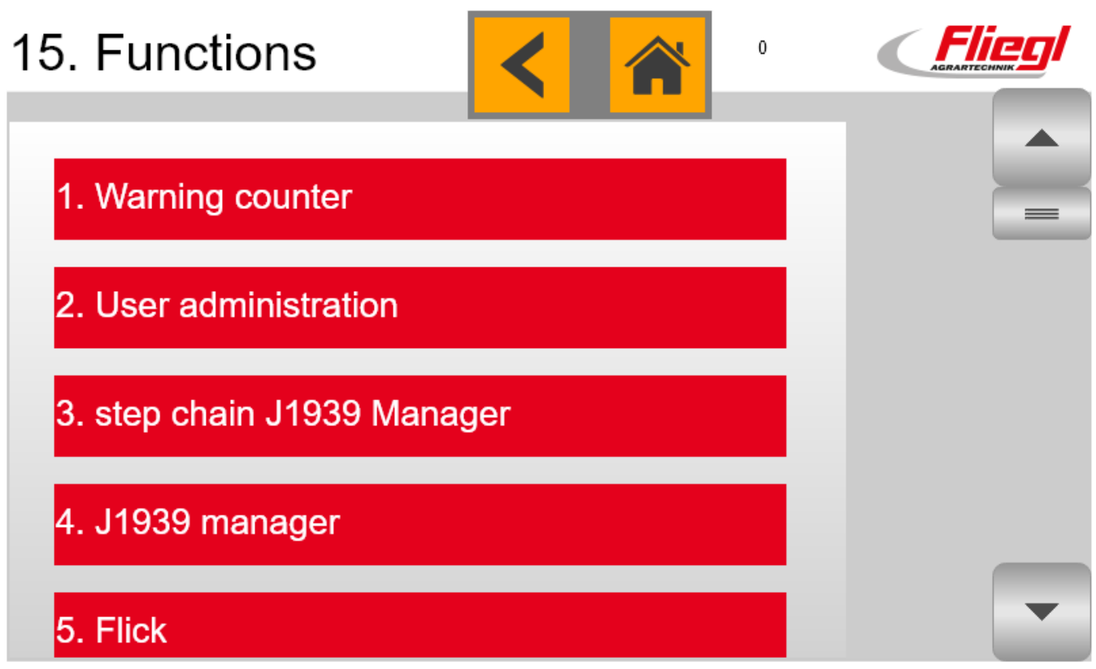
The default values can be reset or loaded under this menu item. It is also possible to reset to the factory settings, this requires a reboot.

13. Language switching

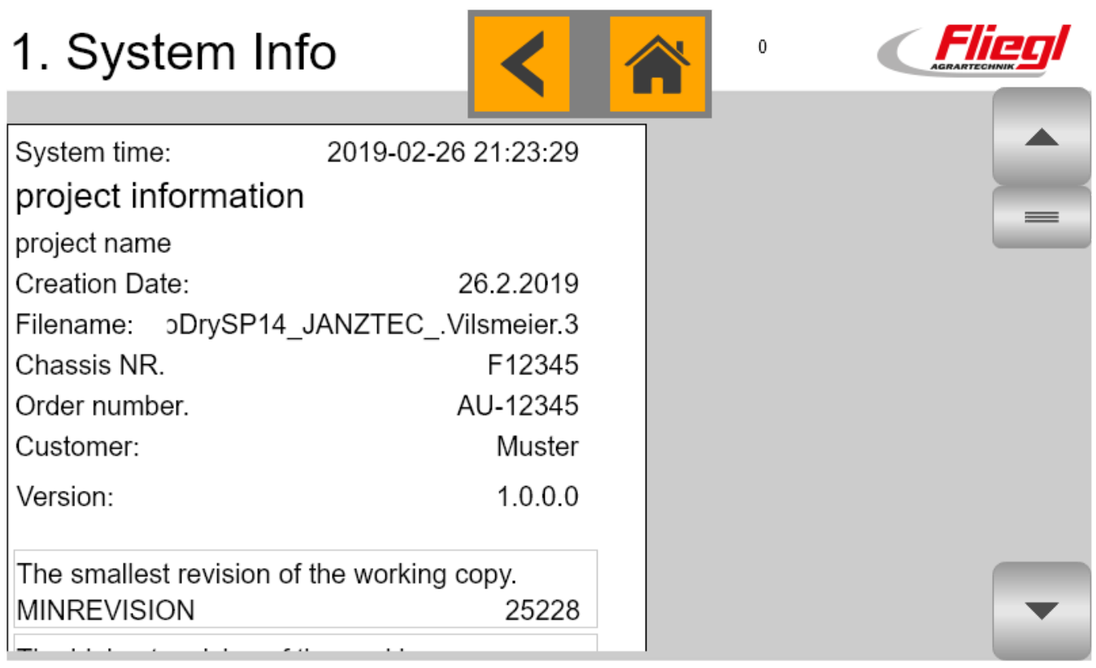
The operating language can be set under this menu item.



14. Other

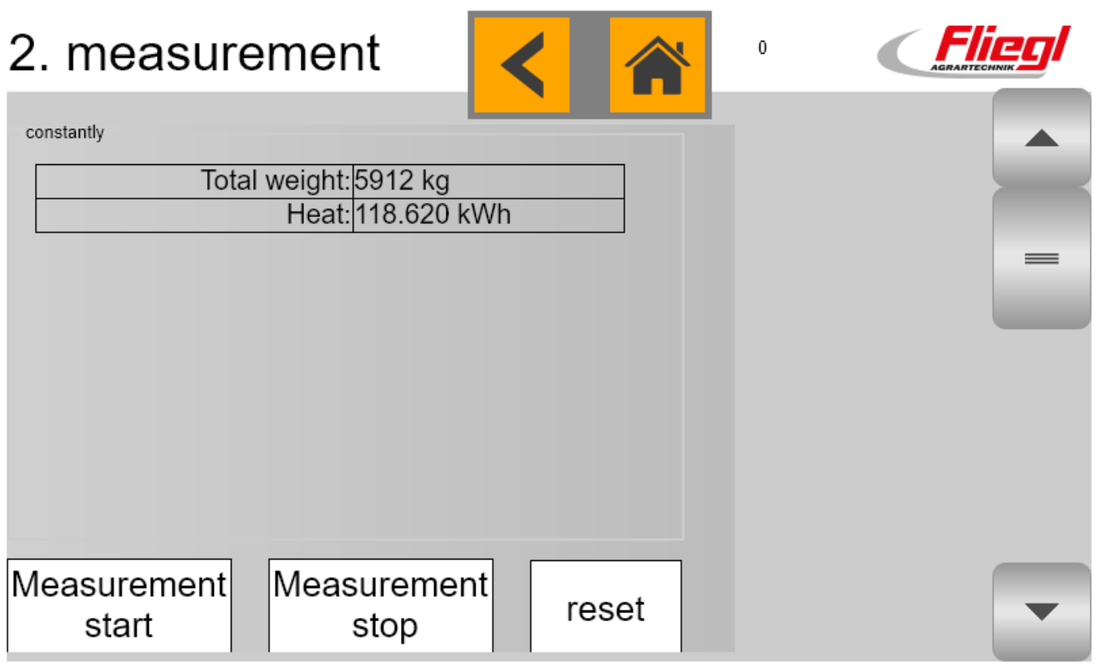


15. Functions



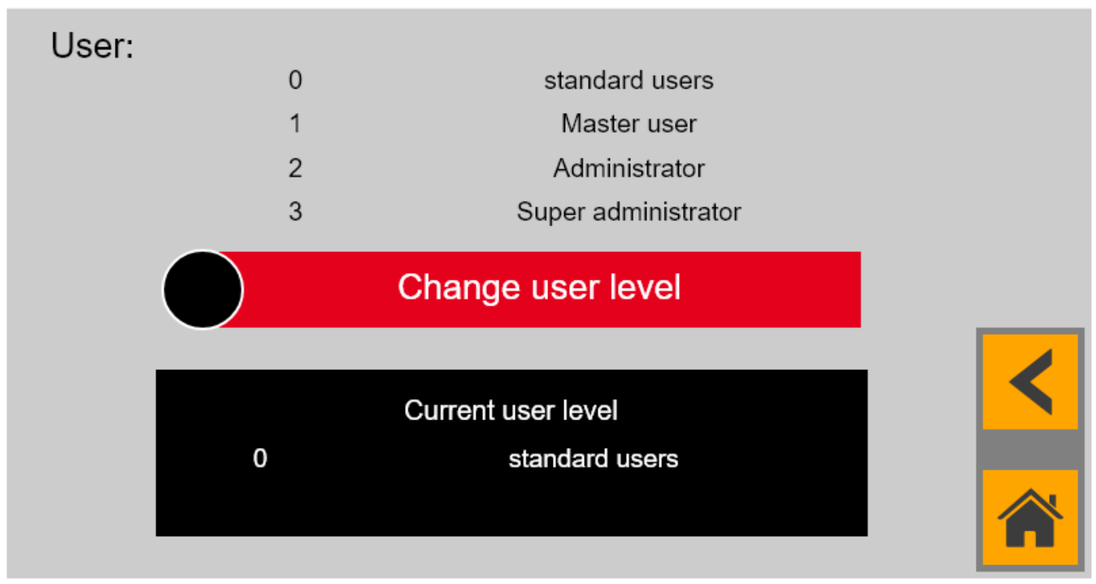
1. System Info

Under "System info" basic information about the drying system is stored.



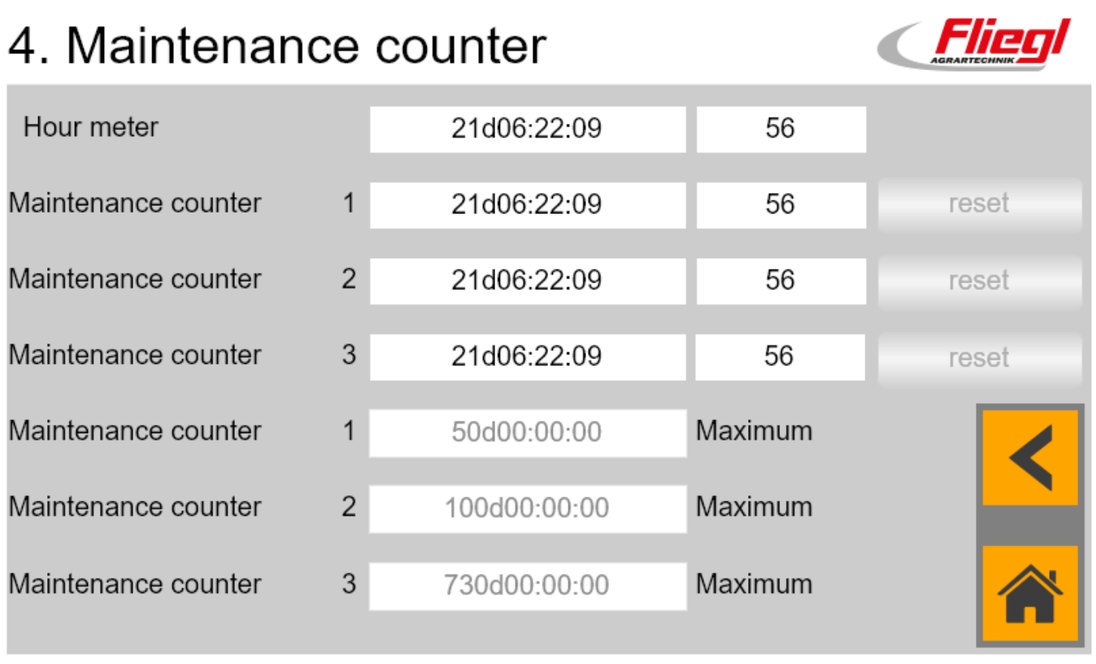
2. measurement

Under "Measurement" a measurement can be started during an evaporation step.



3. Login

Under "Login" the user level can be changed by entering a password.



4. Maintenance counter

The "Maintenance counter" shows the elapsed time since the last reset.
The operating hours counter runs from the initial startup of the device (factory test).
The maintenance counters 1 - 3 can be used for maintenance, servicing and maintenance be set.

5. USB

acc 1	chgrp fliegl –R /media/sdcard/data/	c 0	r 22
	---		
acc 2	chmod g+s -R /media/sdcard/data/	c 0	r 22
	---		
acc 3	chmod 775 -R /media/sdcard/data/	c 0	r 22
	---		

acc1 rights Set if in settings 19. Path has been changed.

acc2 rights Set if in settings 19. Path has been changed.

list files	clear	c 0	r 22

List directory

disk free	clear	c 0	r 22

Show free storage

hostname	hostname ---	c 0	r 22

Show host name

list drives	clear	c 0	r 22

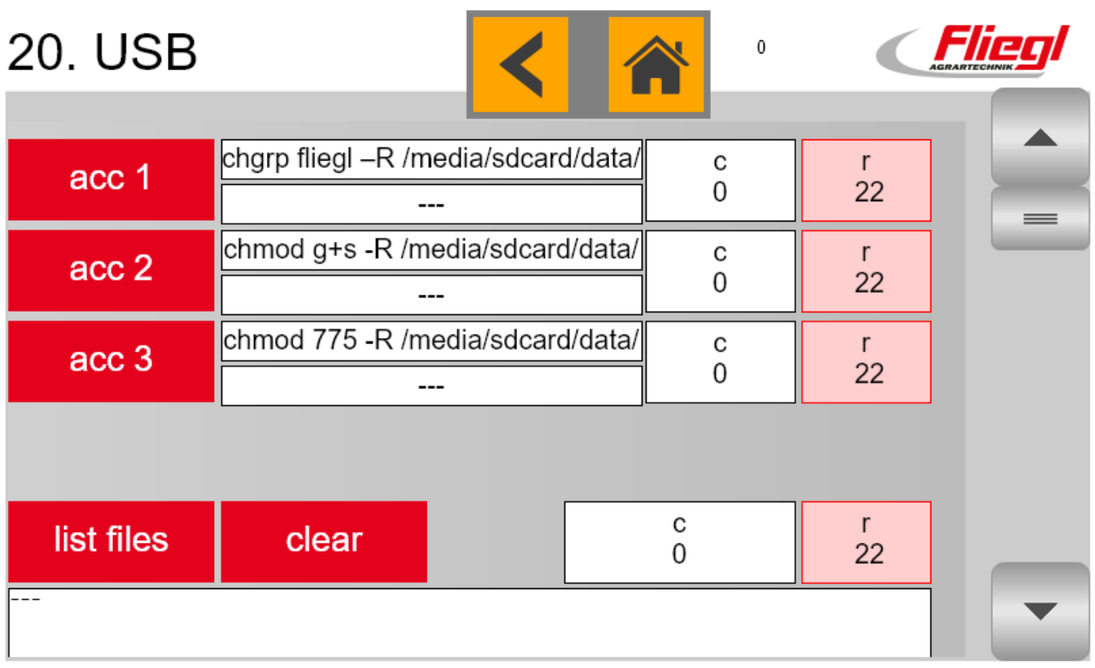
Describe USB stick:
ever in this order: Insert stick
1. list drives
2. Select drive (USB stick)
3. mount
4. write
5. unmount
6. remove the stick

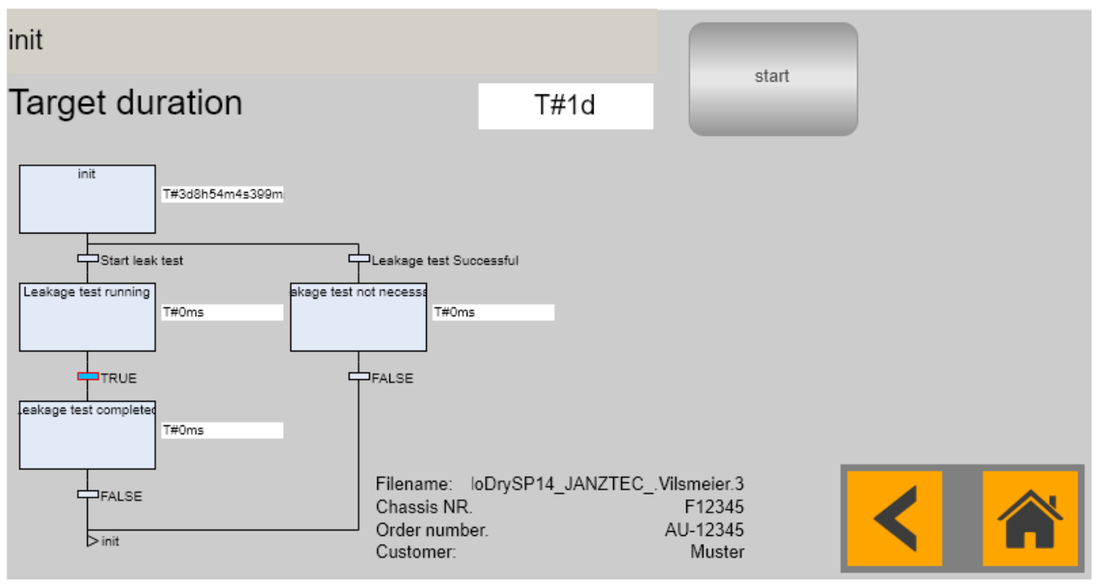
	POU_SplitArray.arr[INDEX]
1	---
2	---
3	---
4	---
5	---
6	---
7	---
8	---
9	---
10	---
11	---

mount

mount	mount ---	c 0	r 22

USB stick can be removed.

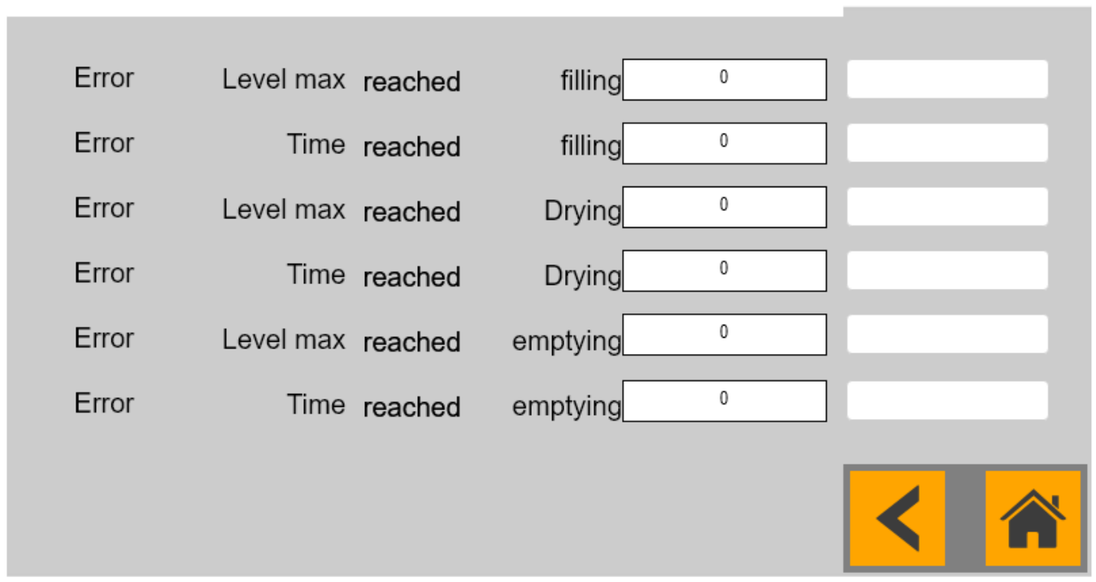




6. Leak test

A leak test can be carried out under "Tightness test."
The tightness test is carried out at the factory.

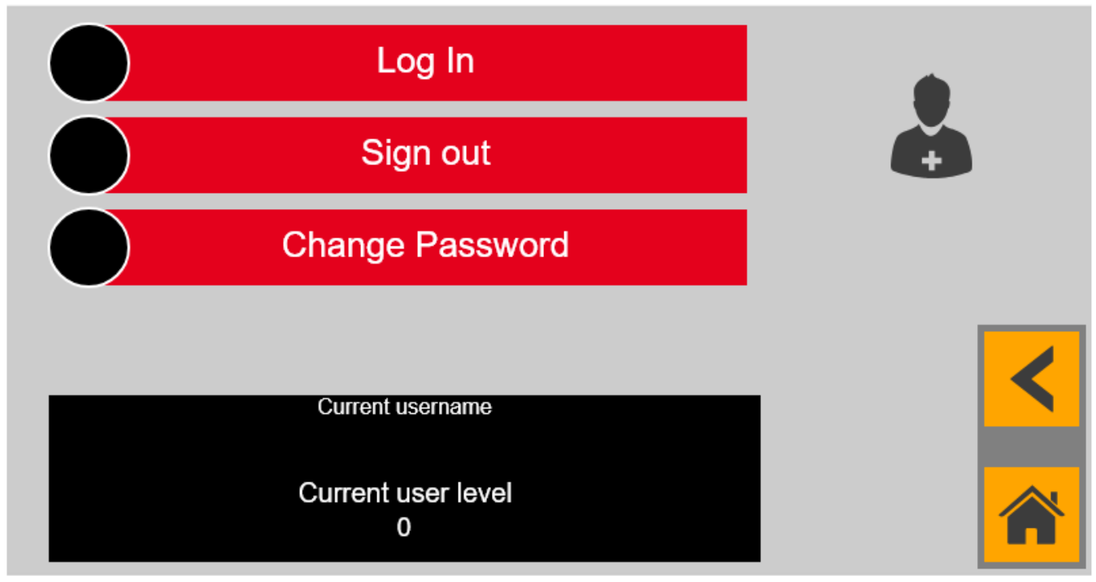
1. Warning counter



1. Warning counter

The alarm counter counts the accumulated warnings
Where 6 alarms have occurred, a single alarm can be acknowledged and the alarm counter is reset
The various warnings listed under the alarm counter are intended to alert the operator that he is causing the problem check for the warnings, especially if they lead to a "Counter-Alarm" (alarm after 6 warnings as described above).

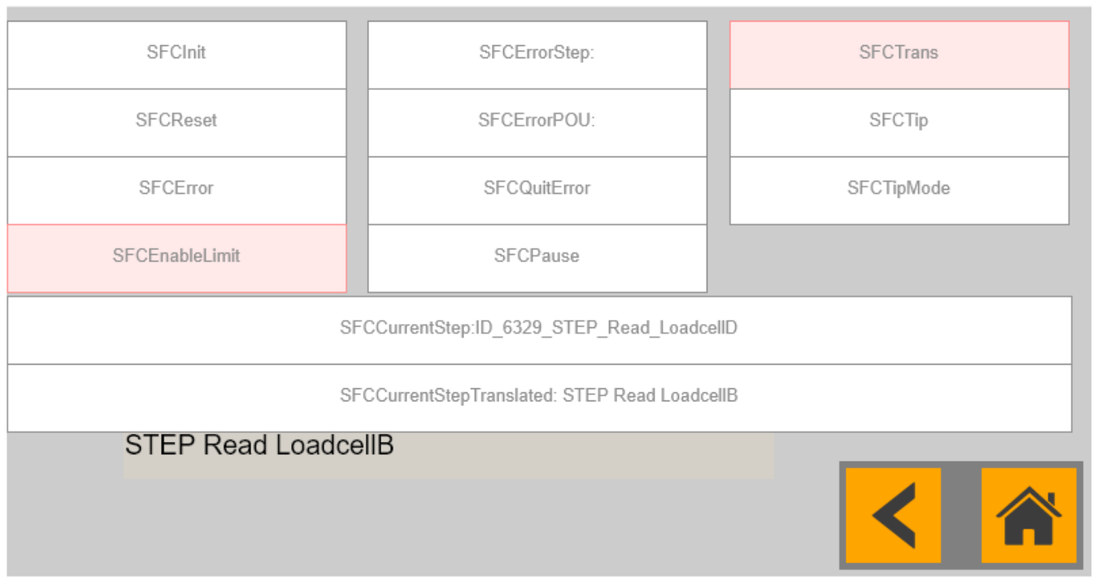
2. User administration



2. User administration

User Management is not used at the moment.

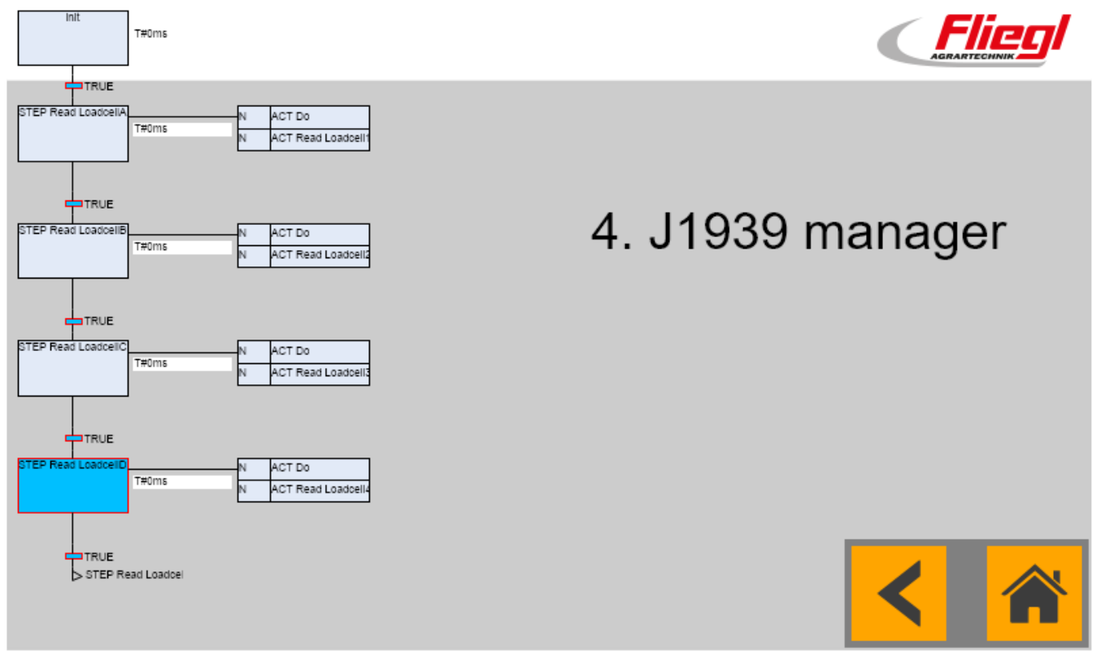
3. step chain J1939 Manager



3. step chain J1939 Manag

Used to control the load cells. Is not relevant for the operator.

4. J1939 manager

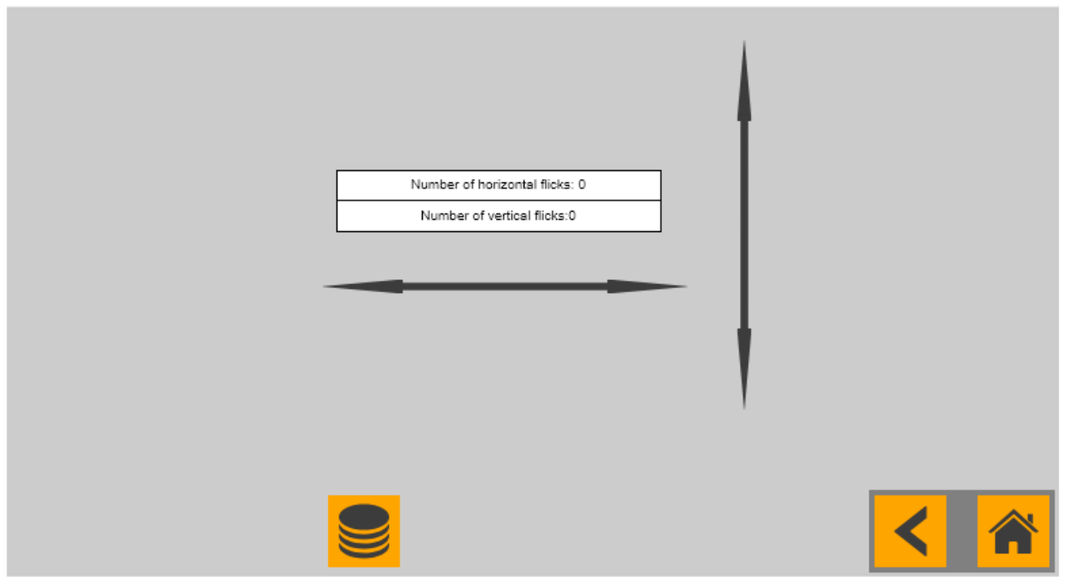


4. J1939 manager

4. J1939 manager

Used to control the load cells. Is not relevant for the operator.

5. Flick



5. Flick

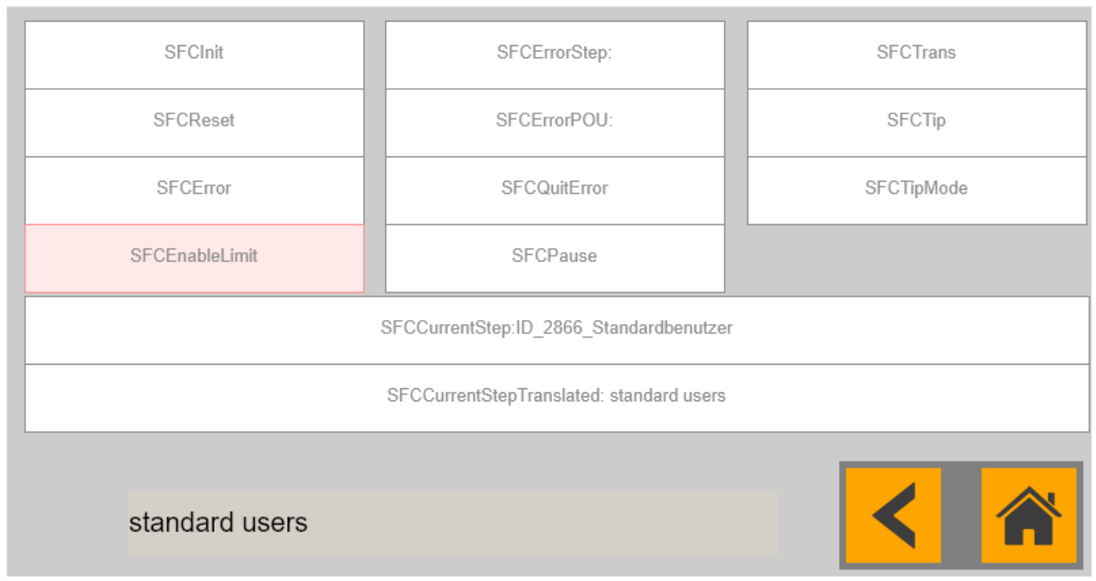
Under "Flick" a functional test of the touch panel can be carried out.

6. Touches

6. Touches

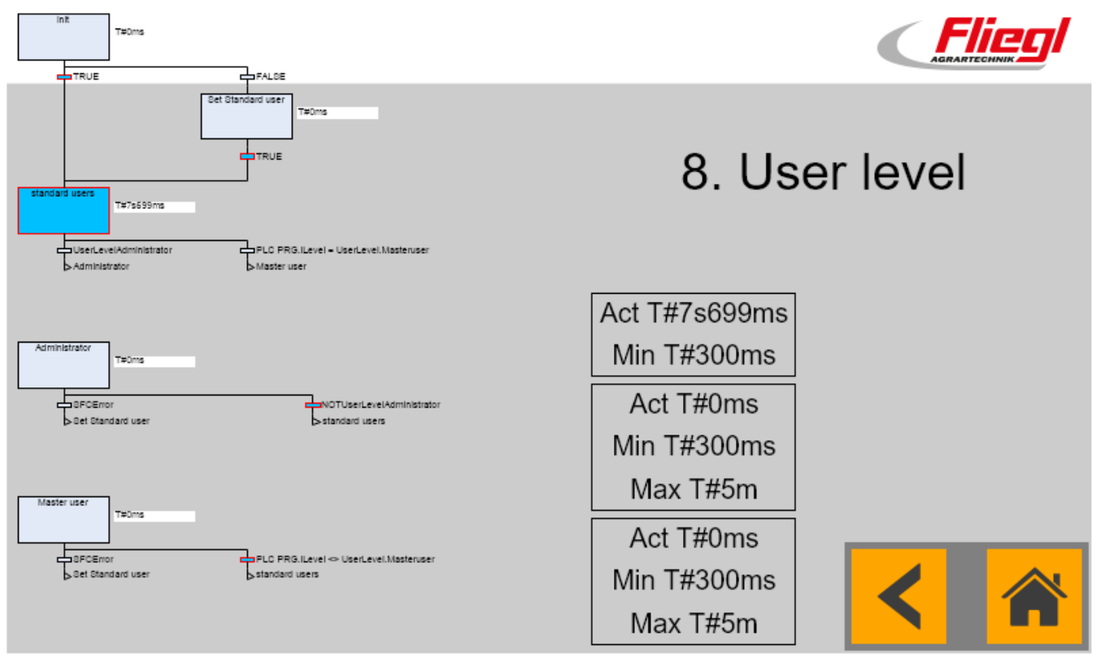
Under "Touches" a functional test of the touch panel can be carried out.

7. step user level



7. step user level

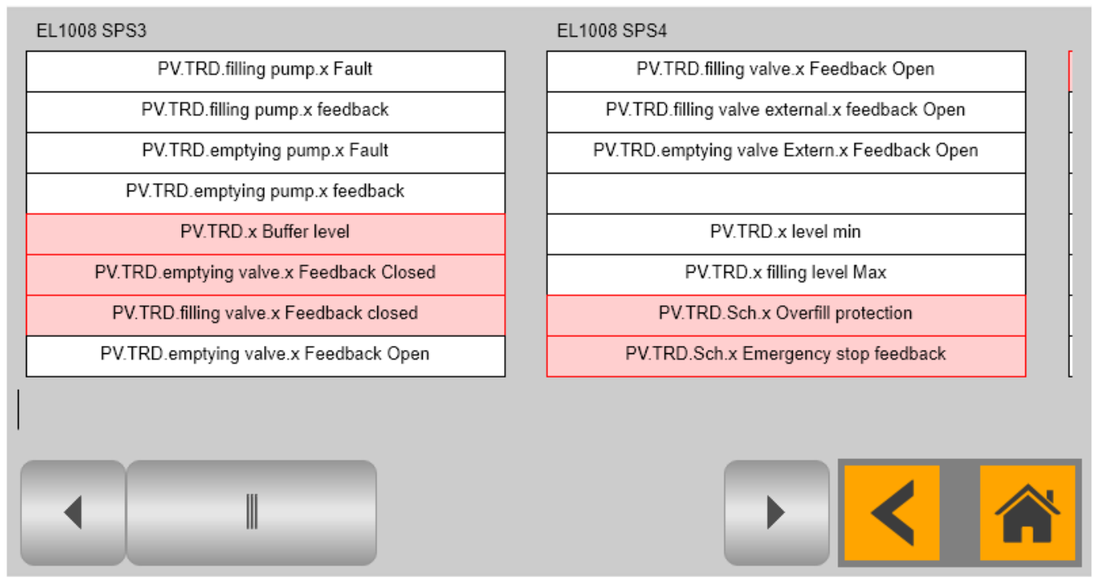
8. User level



8. User level

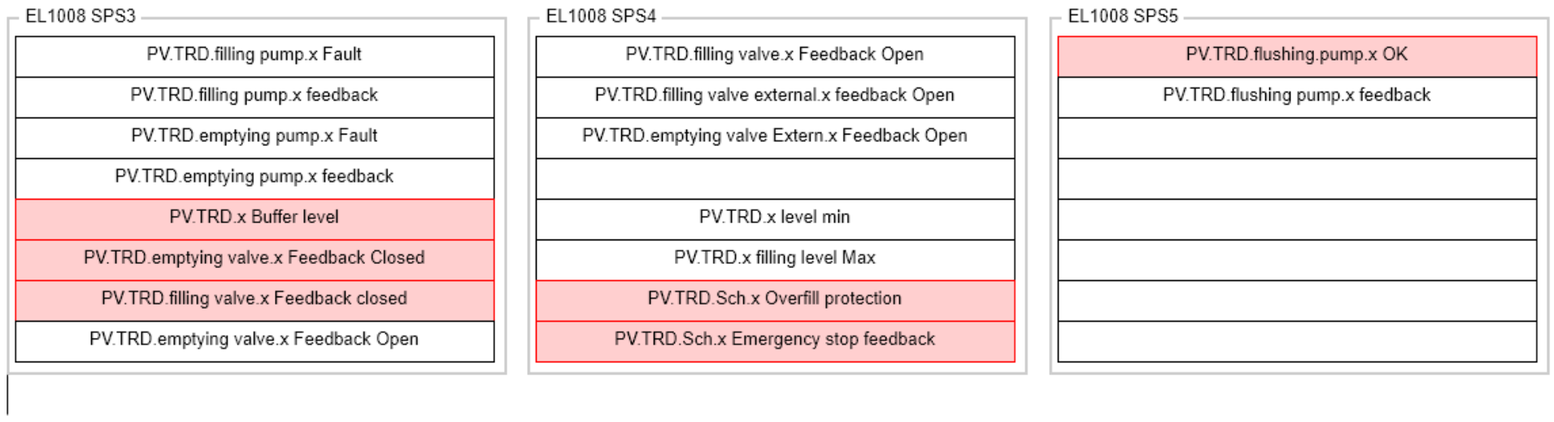
Userlevel shows the currently used userlevel and the remaining time.

9. inputs

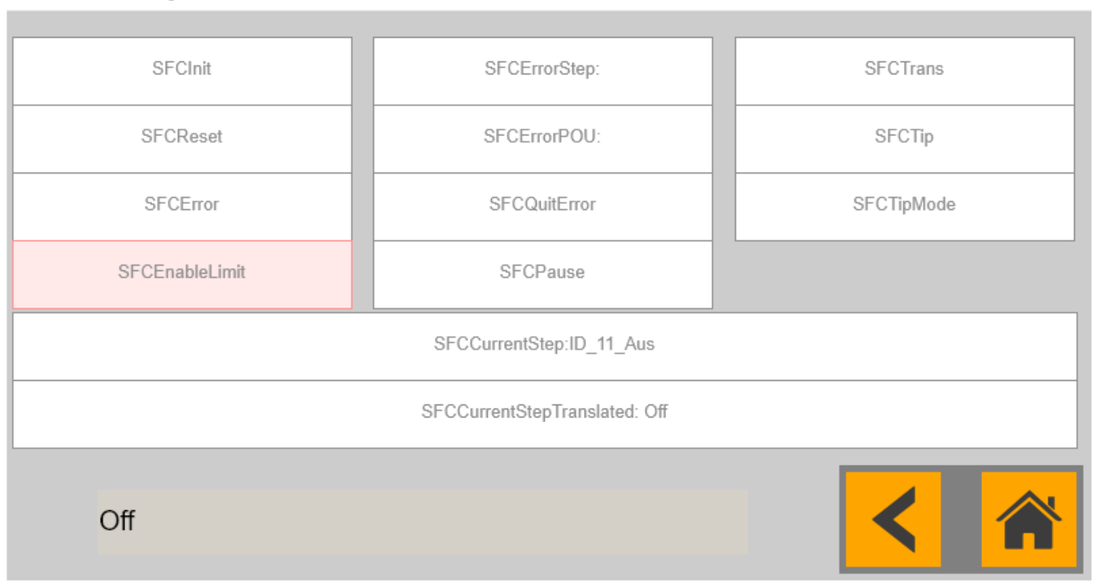


9. inputs

Displays the occupied inputs.

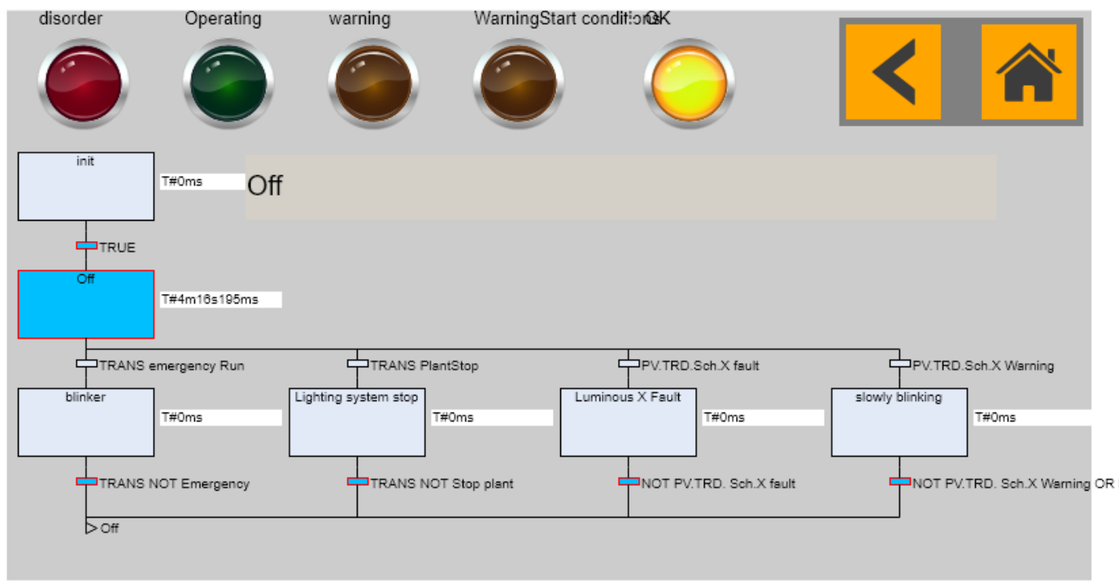


10. sequence blinker



10. sequence blinker

11. blinker

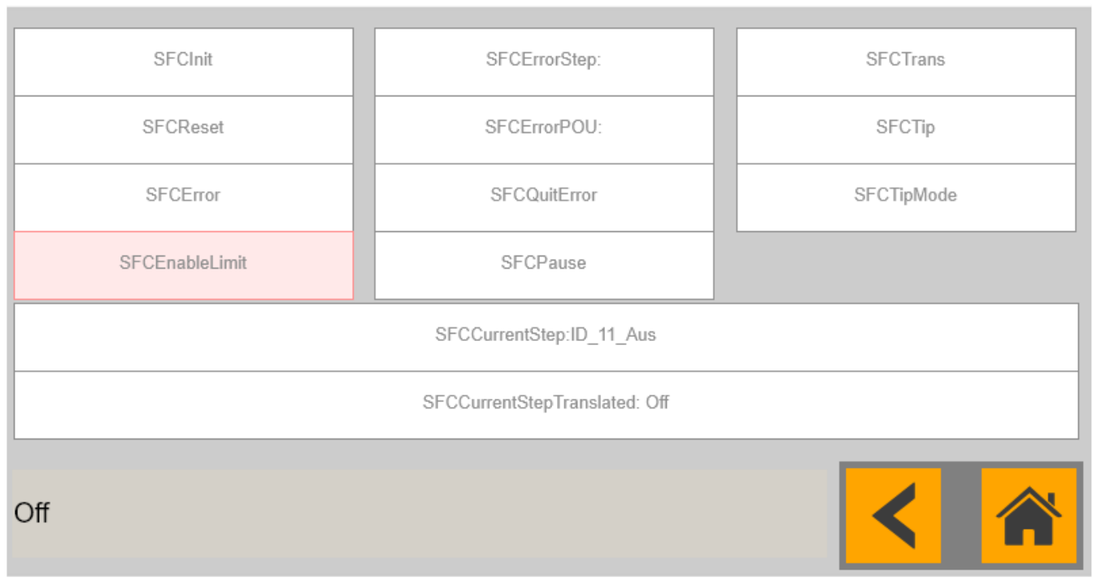


11. blinker

Visualization of the lamp on the control cabinet. Fault lamp.
Blink rhythm:
1s ON / 1s OFF: Emergency operation

Leed (permanently ON): FAULT or PLANT STOP
3s ON / 3s OFF: $Pending pending
Temporary OFF: $T No warning, no fault

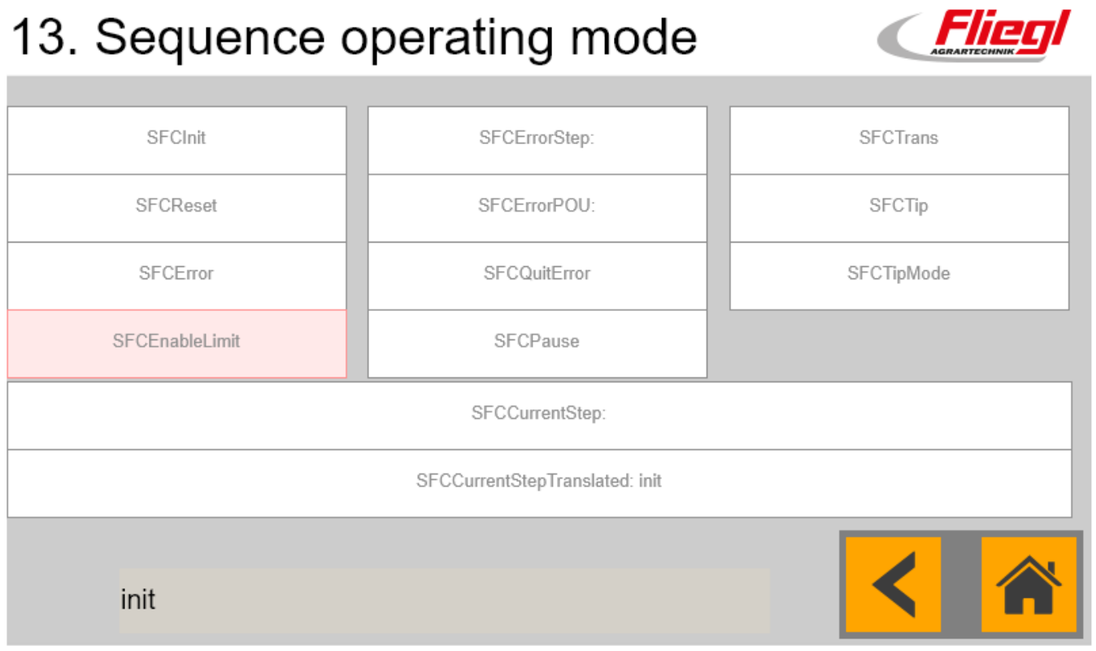
12. sequence expiration



12. sequence expiration

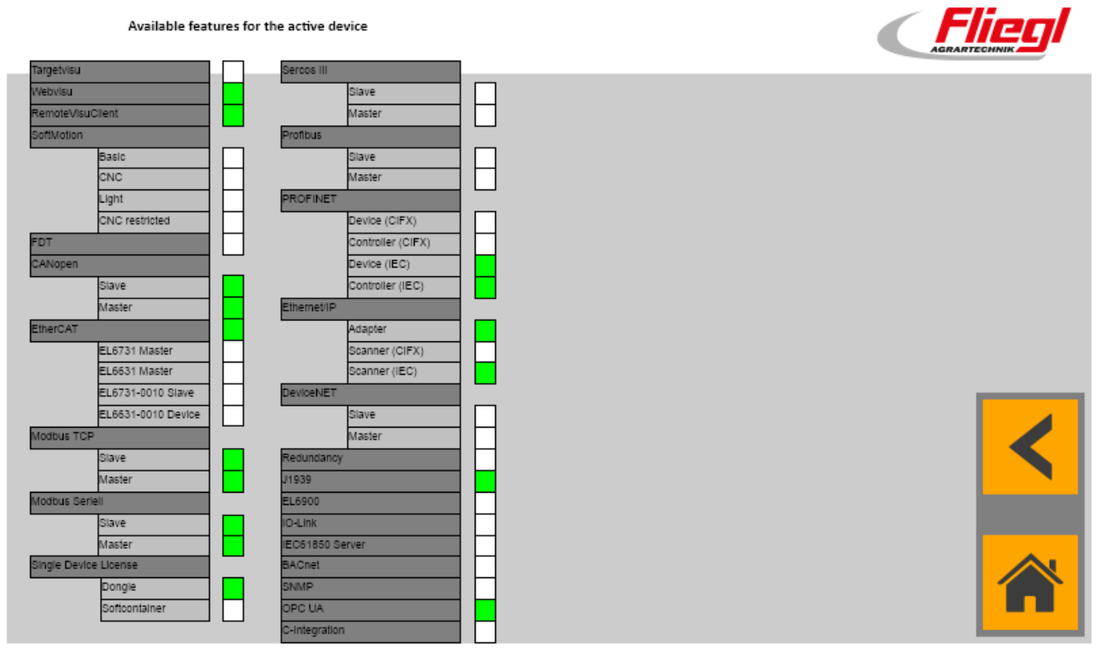
Allows the user to intervene in the sequencer's flow.
For more information, see:
https: //help.codesys.com/webapp/ cds sfc sfc flags; product = codesys; version = 3.5.13.0

13. Sequence operating mode



13. Sequence operating m

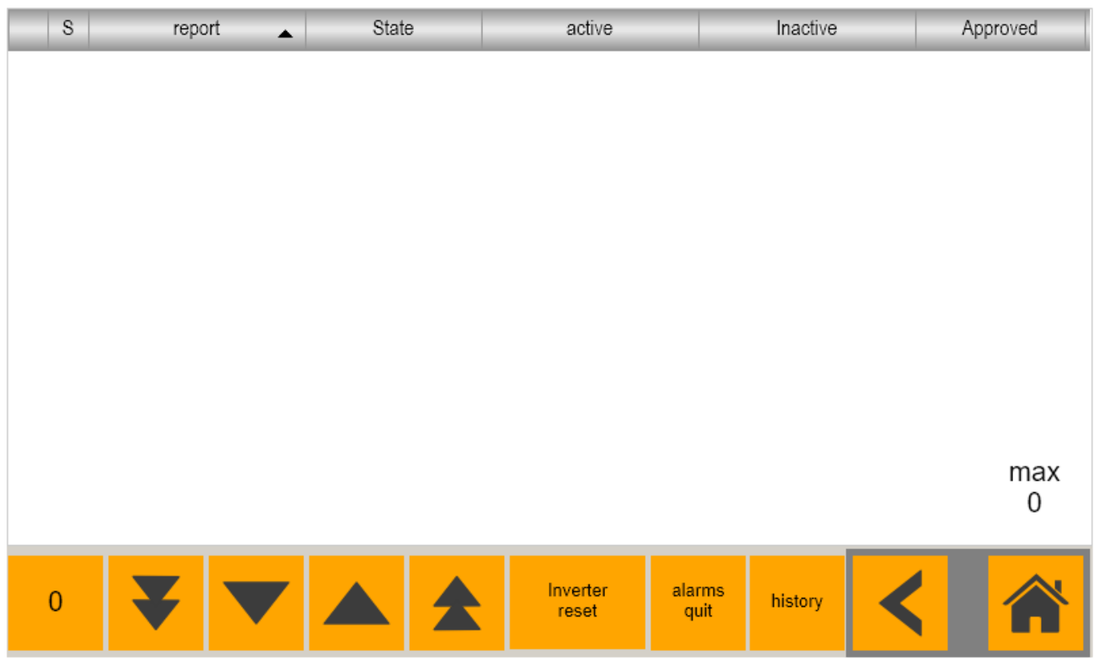
Allows the user to intervene in the sequencer's flow.
For more information, see:
https: //help.codesys.com/webapp/ cds sfc sfc flags; product = codesys; version = 3.5.13.0



14. Device Reader

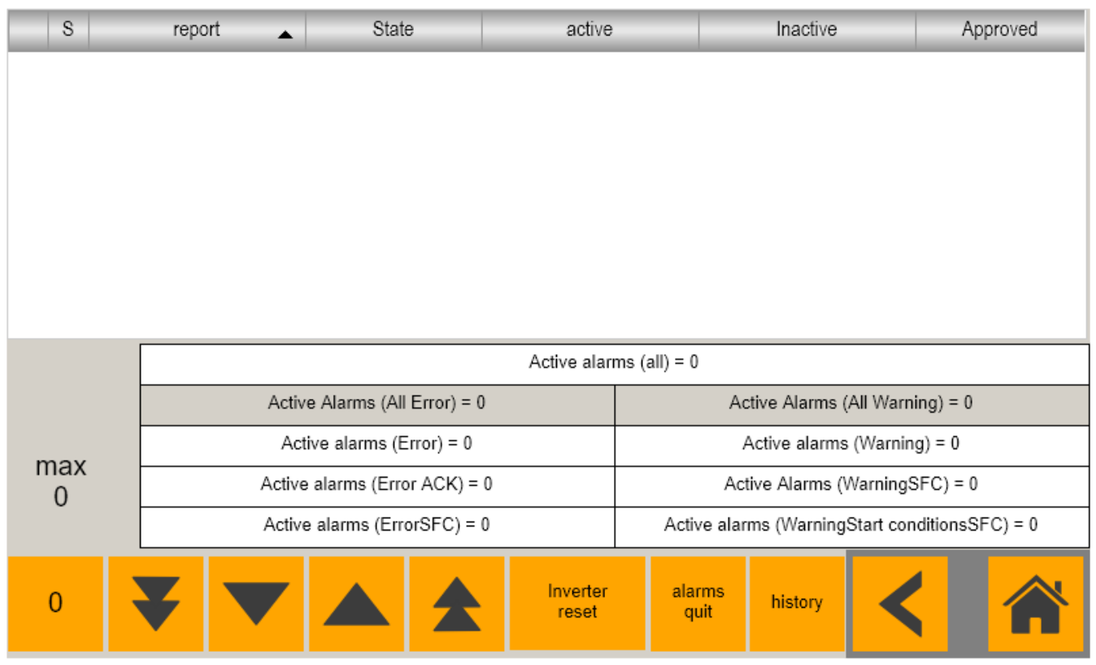
Represents the unlocked licenses. Green = License unlocked.

alarms



Alarms detail

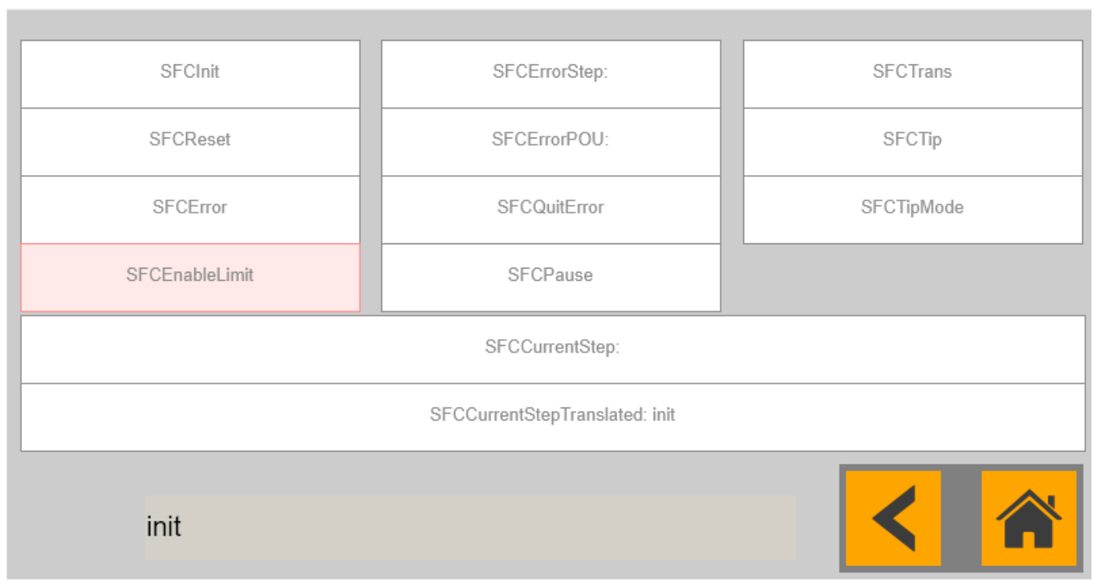
Time how many alarms per group are active.

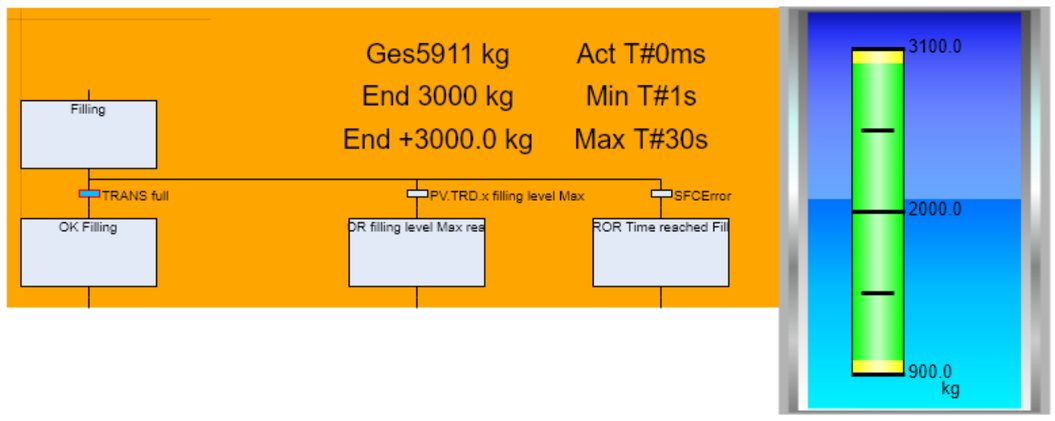


Alarms history

	S	report	State	active	Inactive	Approved
0	✓	Fault inverter drum	Normal	26.02.2019 21:19:55	26.02.2019 21:20:04	26.02.2019 21:20:05
1	✓	Fault i550 Ethercat	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
2	✓	overfill protection	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
3	✓	Fault EL2008 PLC6	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
4	✓	Fault EL2008 SPS7	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
5	✓	Fault EL3202 SPS8	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
6	✓	Fault EL1008 PLC4	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
7	✓	Fault EL1008 SPS5	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
8	✓	Fault EK1100 PLC2	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
9	✓	Fault EL1008 PLC3	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
10	✓	Emergency stop	Normal	26.02.2019 21:19:41	26.02.2019 21:19:45	
11		Undertemperature limit	Normal	26.02.2019 09:39:01	26.02.2019 09:39:57	

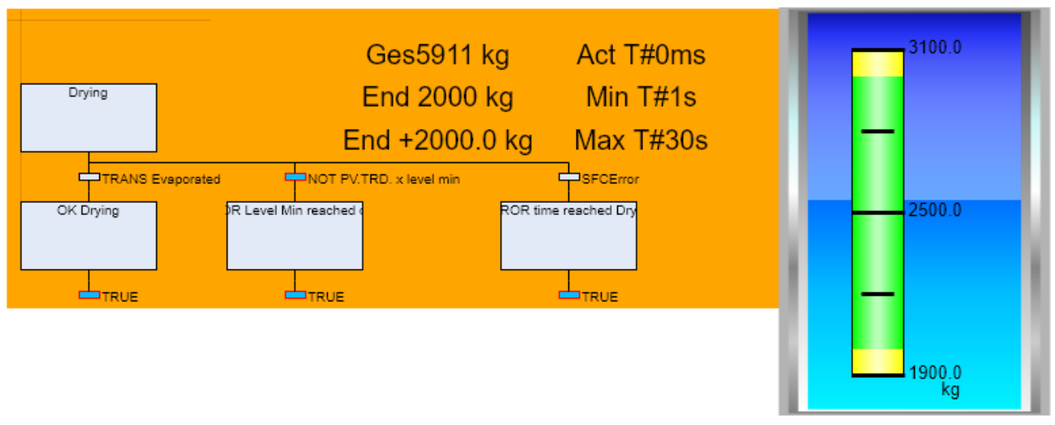
18. sequence leak test





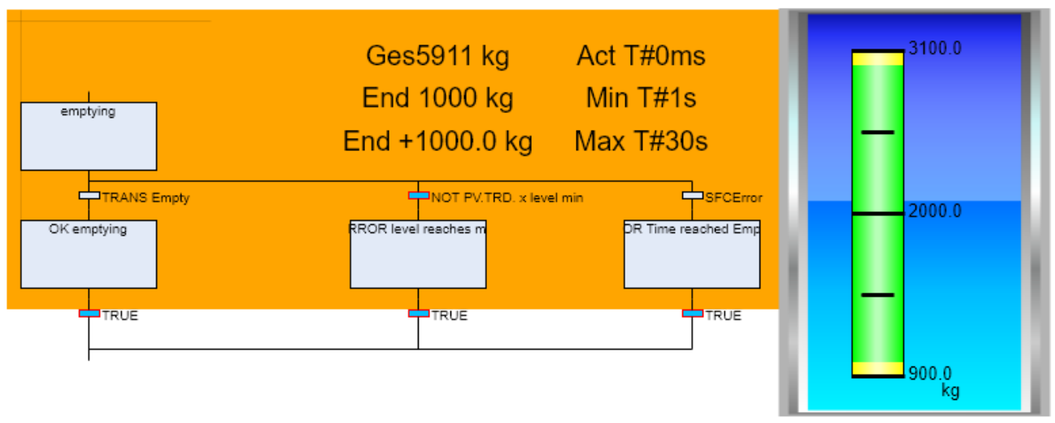
Filling

Shows graphically whether there is an error in the step sequence
This shows the weight, the elapsed time and the minimum and maximum time.
ext is a graphic representation of the filling quantity



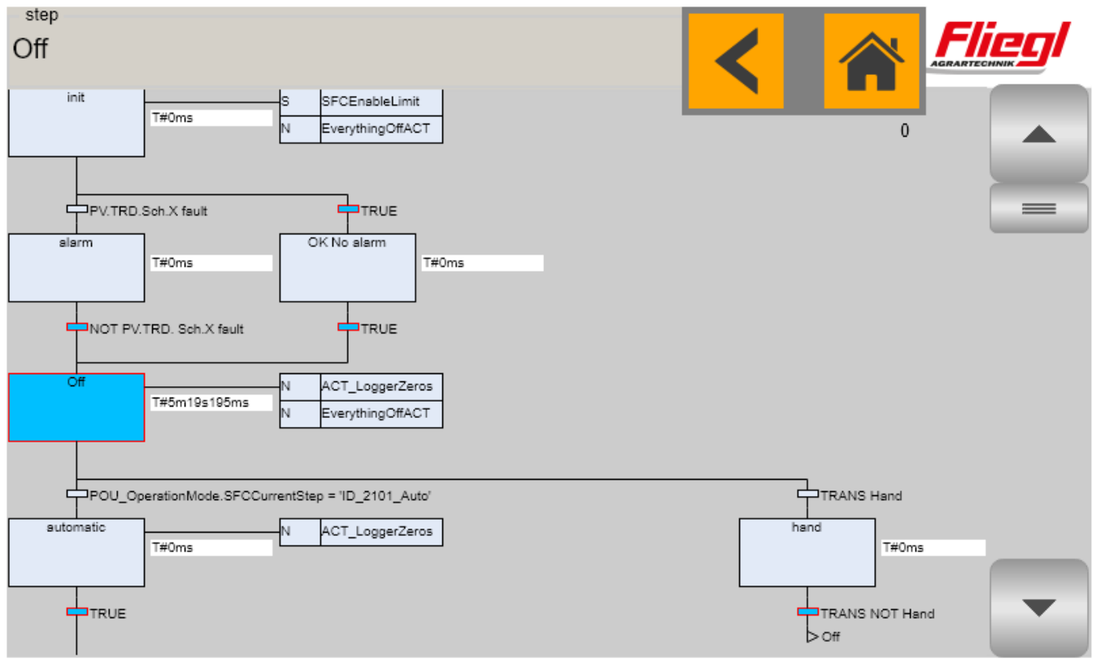
Drying

Shows graphically whether there is an error in the step sequence
This shows the weight, the elapsed time and the minimum and maximum time.
ext is a graphic representation of the filling quantity



emptying

Shows graphically whether there is an error in the step sequence
This shows the weight, the elapsed time and the minimum and maximum time.
ext is a graphic representation of the filling quantity

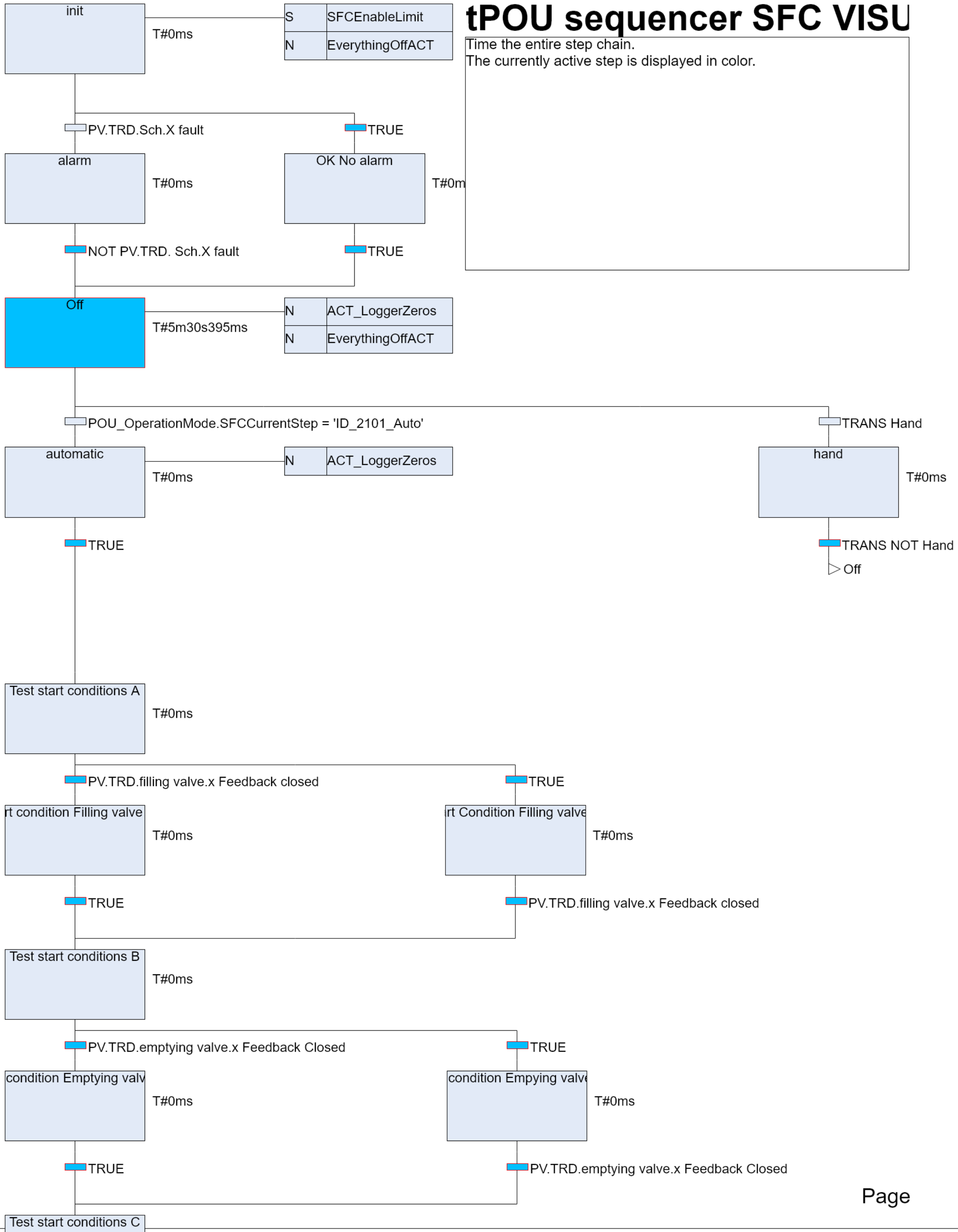


step

Time the entire step chain.
The currently active step is displayed in color. Under points 2 and 3, the sub-steps evaporation and flushing are accessible, below 1, the total chain errreichbar.

tPOU sequencer SFC VISU

Time the entire step chain.
The currently active step is displayed in color.



Test start conditions D

T#0ms

NOT PV.TRD. Emptying valve.x Feedback Open

TRUE

ondition Emptying valve

T#0ms

art Condition Emptying v

T#0ms

TRUE

NOT PV.TRD. Emptying valve.x Feedback Open

Test start conditions E

T#0ms

PV.TRD.x Buffer level

TRUE

Start condition Buffer le

T#0ms

DR start condition buffer

T#0ms

TRUE

PV.TRD.x Buffer level

Test start conditions F

T#0ms

NOT PV.TRD. flushing pump.x feedback

TRUE

start condition flushing p

T#0ms

R start condition Flushing

T#0ms

TRUE

NOT PV.TRD. flushing pump.x feedback

Fan off

T#0ms

R	Normal mode fan AC
R	odour mode Fans AC

TRUE

Fan on

T#0ms

SD PV.	Normal mode fan AC
SL PV.	odour mode Fans AC

TRUE

OK start conditionsfilled

T#0ms

TRUE

StartFilling Log

T#0ms

TRANS_Do not fill

Start Drying Log

TRUE

Filling Valve open

S	PV.TRD.filling valve.x

T#0ms

PV.TRD.filling valve.x Feedback Open

SFCError

OK filling valve open

T#0ms

)R Filling valve open Tir

T#0ms

TRUE

PV.TRD.filling valve.x Feedback Open

illing Valve open externa

T#0ms

S

ReleaseFilling_Exterr

ReleaseFilling_Extern.xFeedback_Open

SFCError

K filling valve On extern

T#0ms

illing valve open Extern

T#0ms

TRUE

ReleaseFilling_Extern.xFeedback_Open

Filling pump on

T#0ms

S

PV.TRD.filling pump.x

PV.TRD.filling pump.x feedback

SFCError

OK filling pump On

T#0ms

RROR Fill pump on time

T#0ms

TRUE

PV.TRD.filling pump.x feedback

)K filling pump is runnin

T#0ms

TRUE

Filling

T#0ms

TRANS full

PV.TRD.x filling level Max

SFCError

OK Filling

T#0ms

filling level Max reache

T#0ms

RROR Time reached Filli

T#0ms

TRUE

TRUE

TRUE

Filling pump off

T#0ms

R

PV.TRD.filling pump.x

NOT PV.TRD. Filling pump.x feedback

SFCError

OK filling pump off

T#0ms

ROR Fill Pump Off Time

T#0ms

TRUE

NOT PV.TRD. Filling pump.x feedback

Filling pump break caste

T#0ms

TRUE

illing valve close externa

R | ReleaseFilling_Extern

T#0ms

NOTReleaseFilling_Extern.xFeedback_Open

SFCError

K filling valve To externa

T#0ms

illing valve close extern

T#0ms

TRUE

NOTReleaseFilling_Extern.xFeedback_Open

filling valve close

R | PV.TRD.filling valve.x

T#0ms

PV.TRD.filling valve.x Feedback closed

SFCError

OK filling valve closed

T#0ms

)R Filling valve close Tir

T#0ms

TRUE

PV.TRD.filling valve.x Feedback closed

Wait for filling

T#0ms

TRUE

ram Overrun Correction

T#0ms

TRANS Flush

TRUE

Mflush

Start Drying Log

T#0ms

TRUE

MDrying

Wait for Drying

T#0ms

TRUE

ram Overrun Correction

T#0ms

TRUE

Start Emptying log

T#0ms

TRUE

Empty valve open

S | PV.TRD.emptying val

T#0ms

PV.TRD.emptying valve.x Feedback Open

SFCError

OK emptying valve oper

T#0ms

R Emptying valve open T

T#0ms

TRUE

PV.TRD.emptying valve.x Feedback Open

mpty valve open externa

T#0ms

S | ReleaseEmptying_Ex

ReleaseEmptying_External.xFeedback_Open

SFCError

mptying valve open ext

T#0ms

ptying valve open exter

T#0ms

TRUE

ReleaseEmptying_External.xFeedback_Open

Empty pump on

T#0ms

Minimu | PV.TRD.flushing.pum

S | PV.TRD.emptying pu

PV.TRD.emptying pump.x feedback

SFCError

OK emptying pump on

T#0ms

OR Empty pump on tim

T#0ms

TRUE

PV.TRD.emptying pump.x feedback

emptying pump is runn

T#0ms

TRUE

emptying

T#0ms

TRANS Empty

NOT PV.TRD. x level min

SFCError

OK emptying

T#0ms

filling level Min reached

T#0ms

OR Time reached Empt

T#0ms

TRUE

TRUE

TRUE

Empty pump off

T#0ms

R | PV.TRD.flushing.pum

R | PV.TRD.emptying pu

NOT PV.TRD. Emptying pump.x feedback

SFCError

OK emptying pump off

T#0ms

OR Empty Pump Off Tim

T#0ms

TRUE

NOT PV.TRD. Emptying pump.x feedback

mpty pump break caste

T#0ms

TRUE

mpty valve close extern

R ReleaseEmptying_Ex

T#0ms

NOTReleaseEmptying_External.xFeedback_Open

SFCError

mptying valve closed ex

T#0ms

ptying valve close exte

T#0ms

TRUE

NOTReleaseEmptying_External.xFeedback_Open

Empty valve close

R PV.TRD.emptying val

T#0ms

PV.TRD.emptying valve.x Feedback Closed

SFCError

)K emptying valve close

T#0ms

R Emptying valve close T

T#0ms

TRUE

PV.TRD.emptying valve.x Feedback Closed

Finish detoxifying B

T#0ms

TRUE

Wait for emptying

T#0ms

TRUE

m Overrun Correction E

T#0ms

TRUE

End of cycle Log

T#0ms

TRUE

aiting period end of cycl

T#0ms

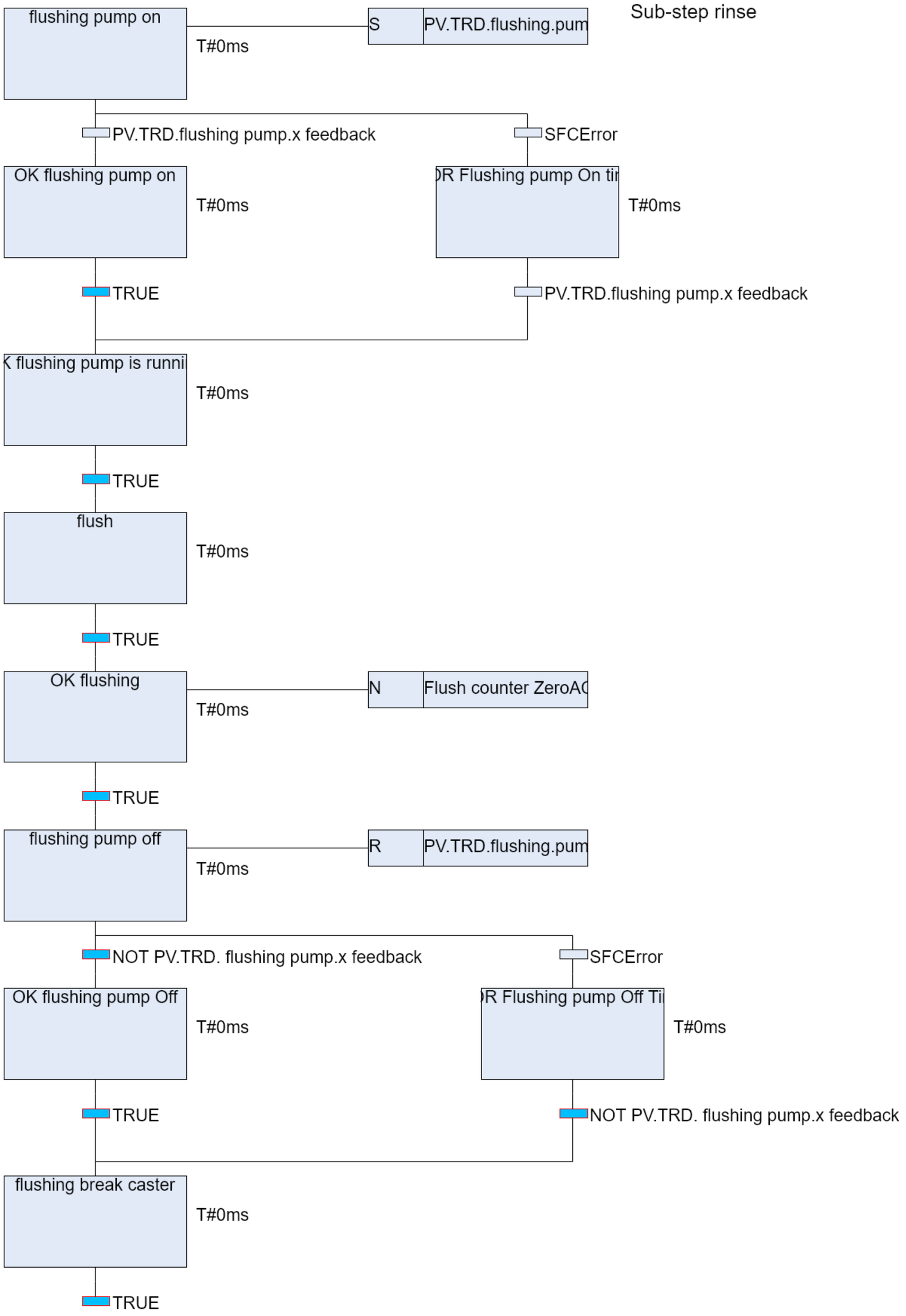
TRUE

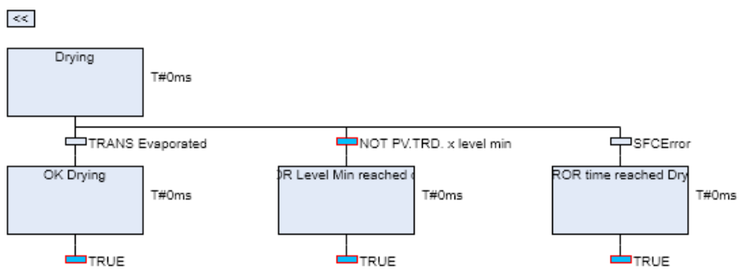
automatic

<<

Mflush

Sub-step rinse



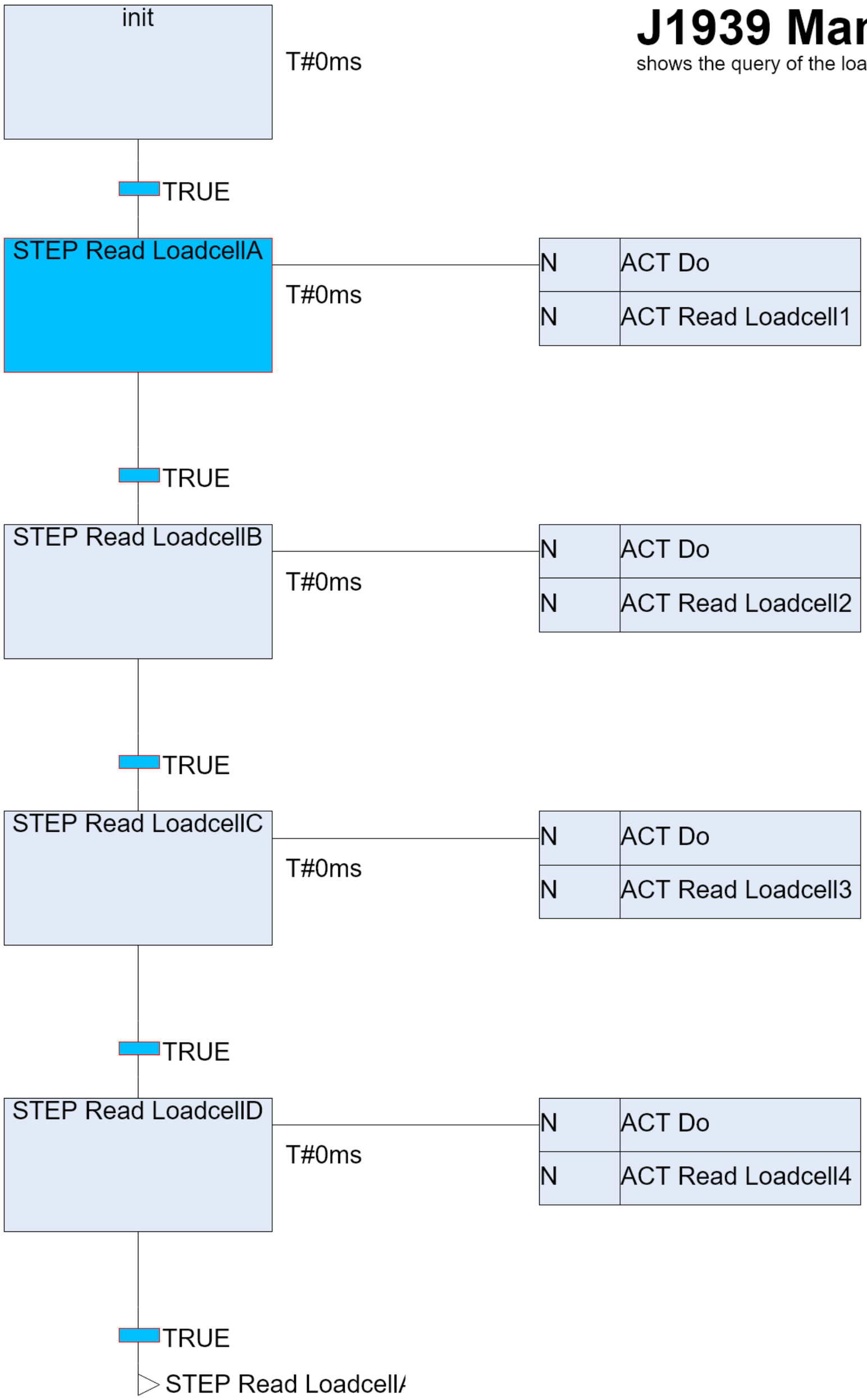


Drying

Sub-step evaporation

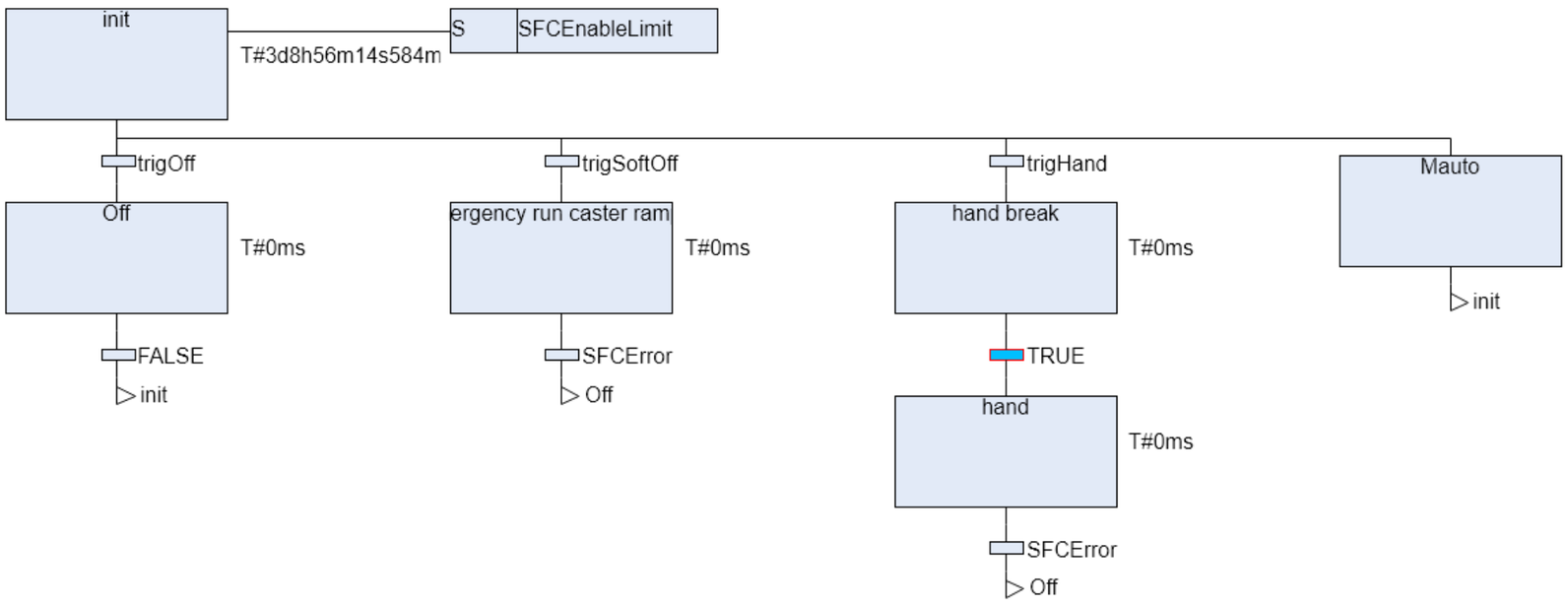
J1939 Manager Request Sl

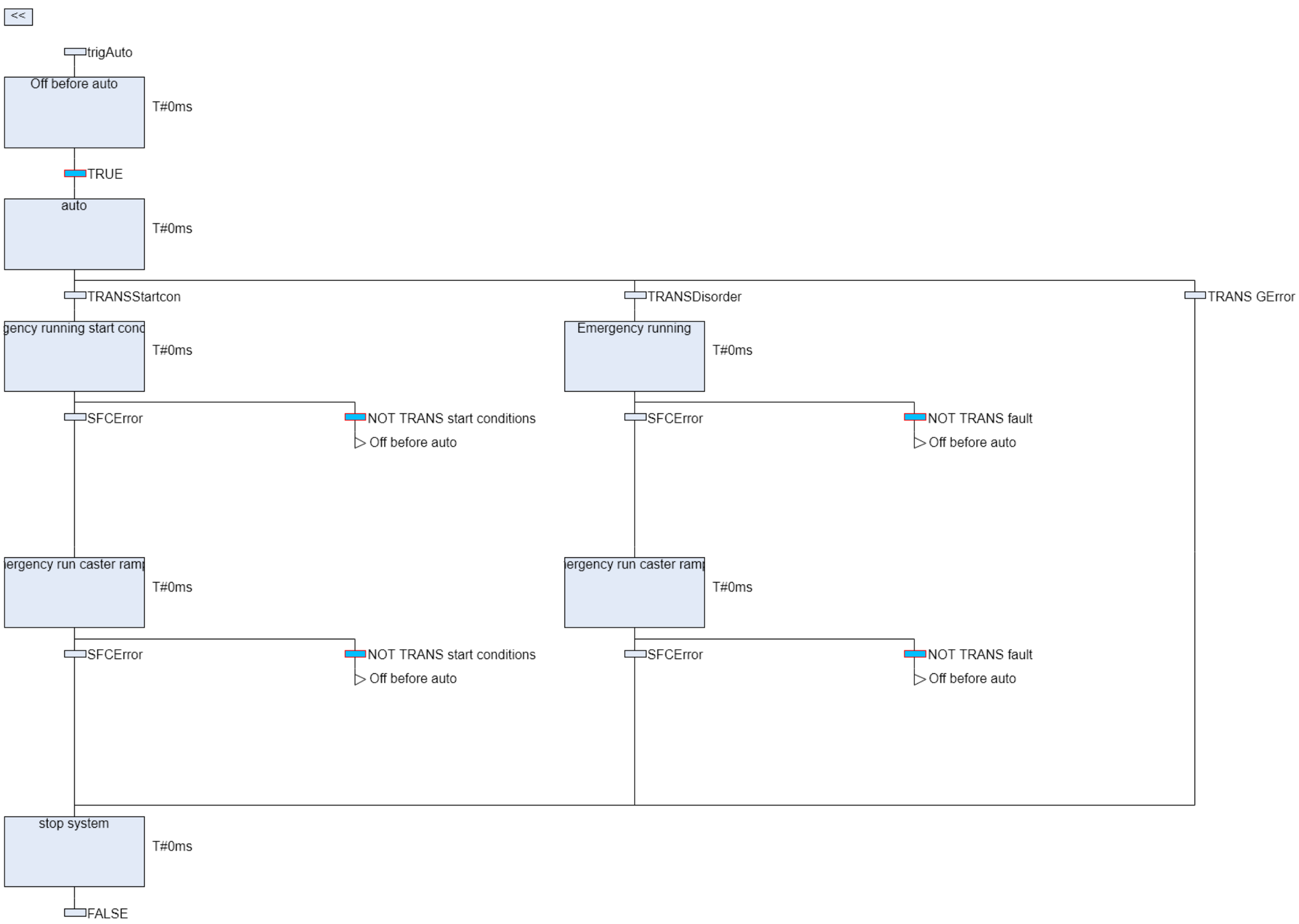
shows the query of the load cells in succession



operation mode

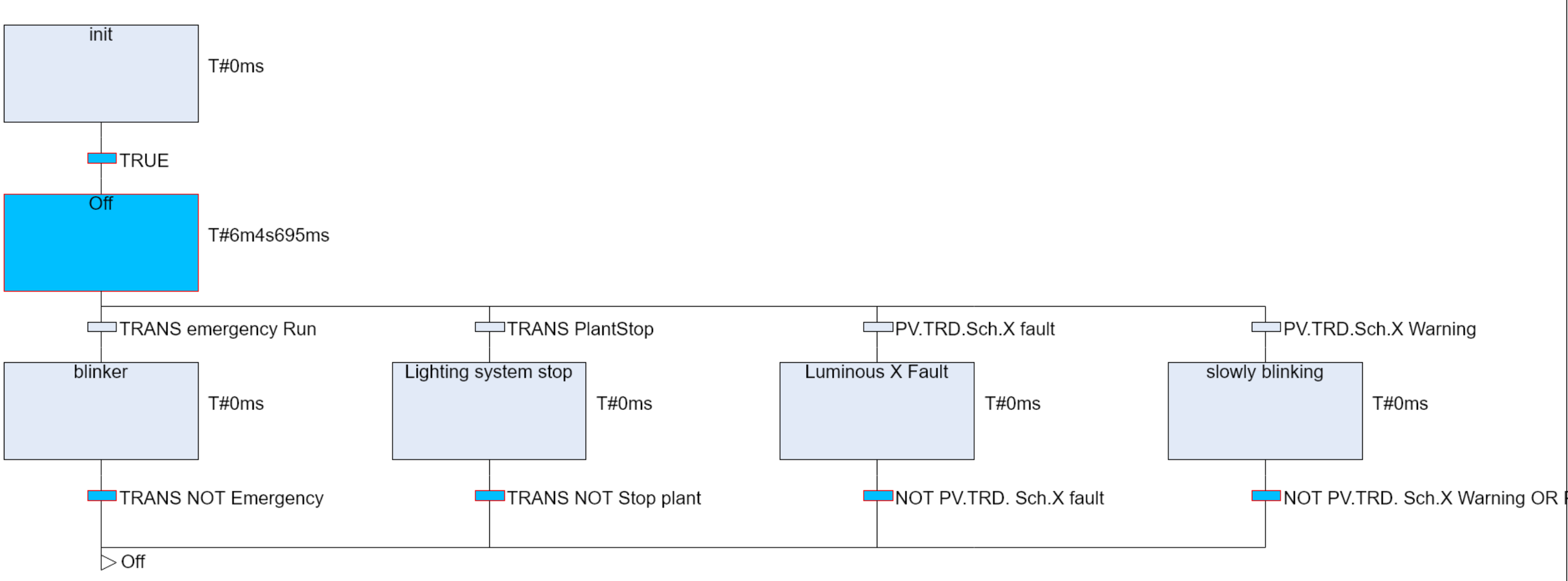
Run of the operating mode including emergency operation.





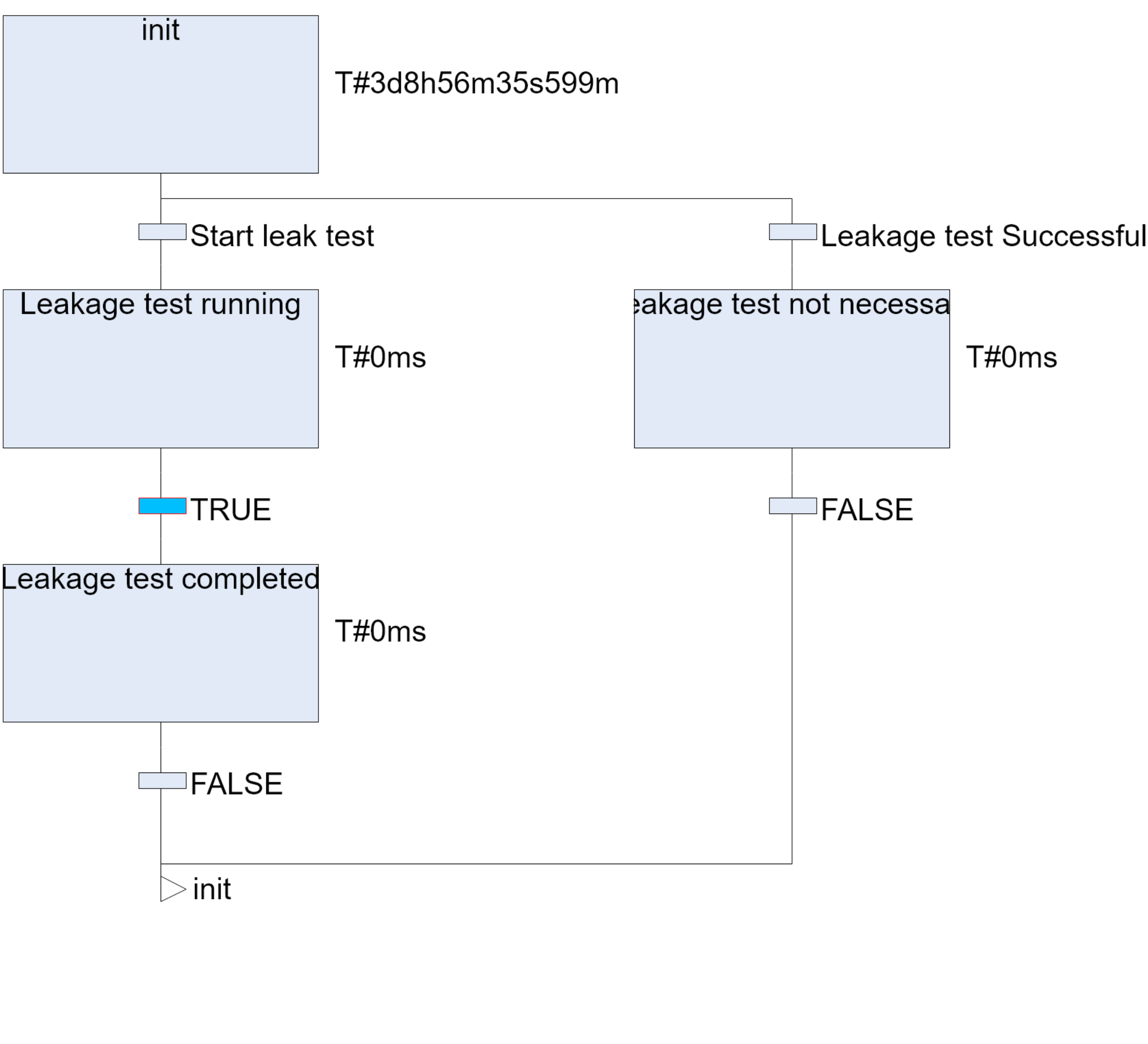
blinker

blinker expiration



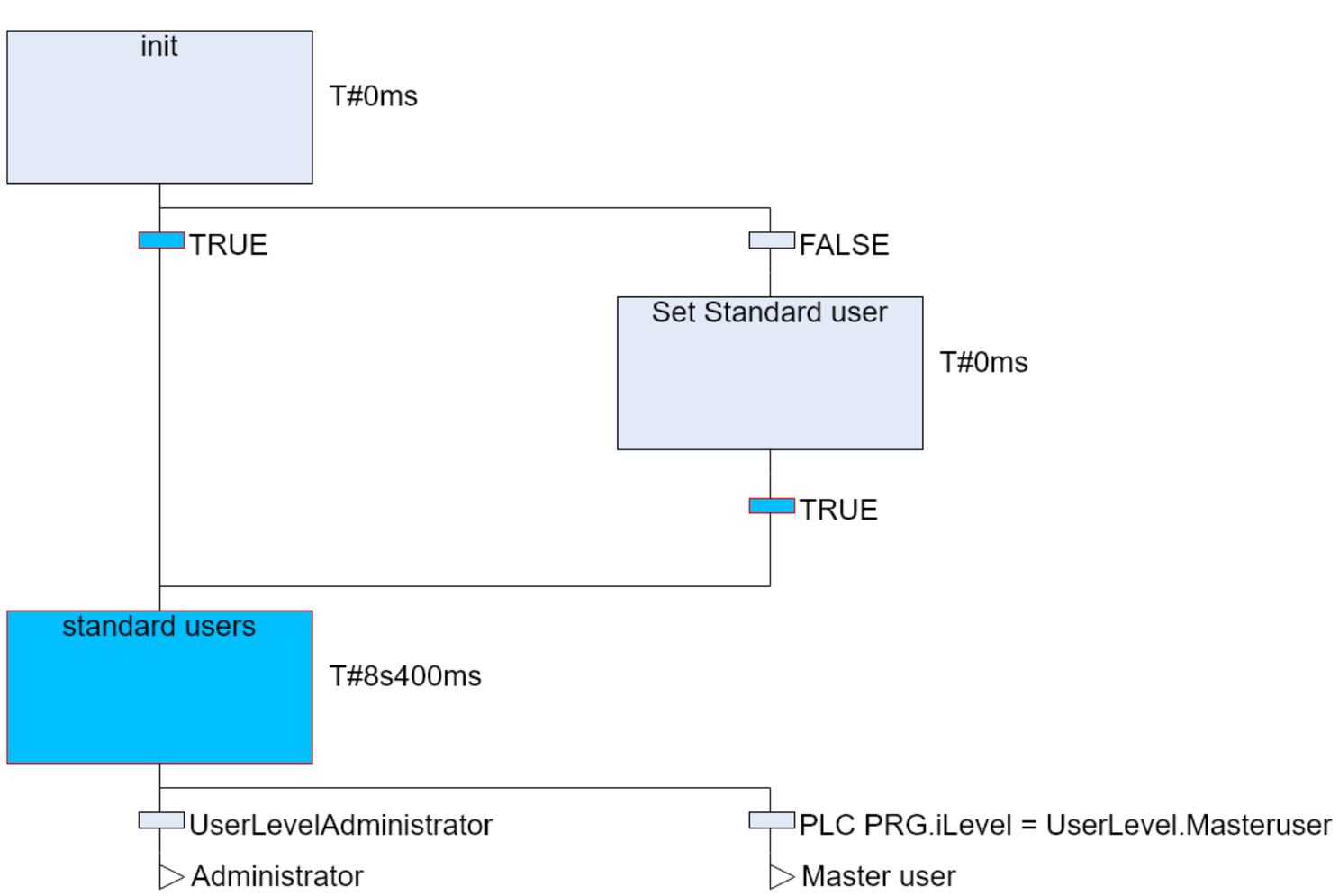
Leakage test

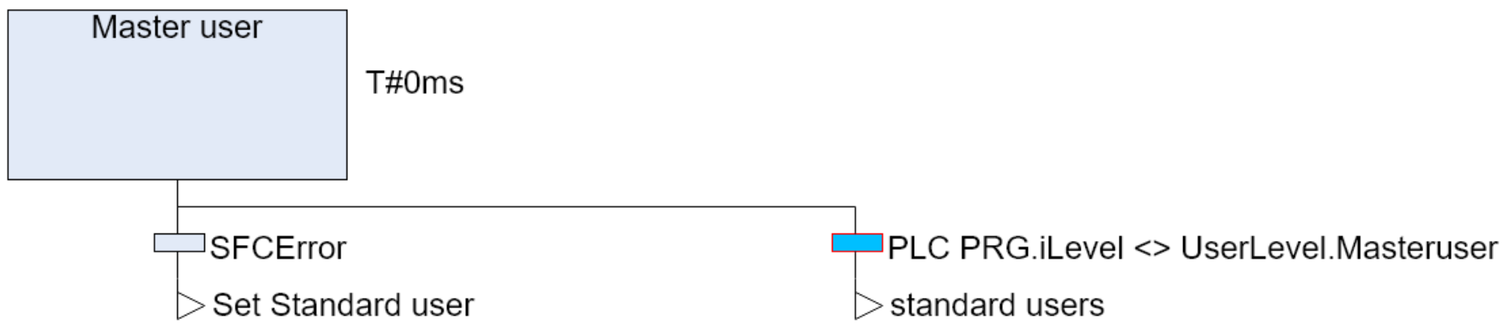
Procedure of the leak test



User level

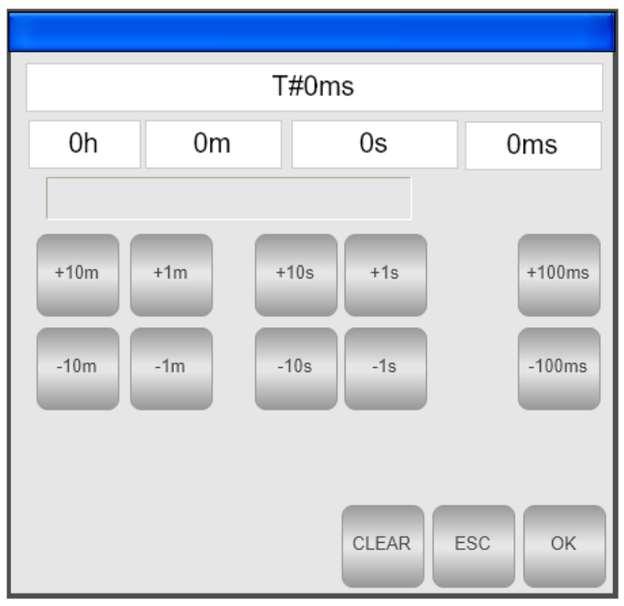
Expiry of the user level



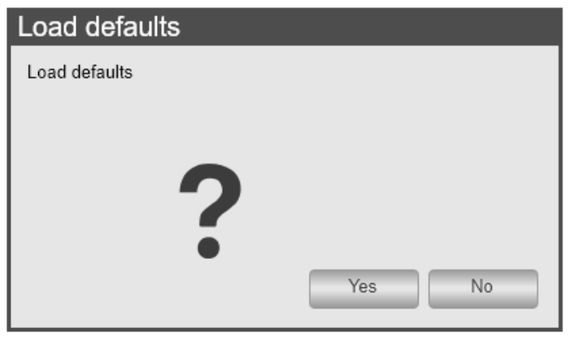


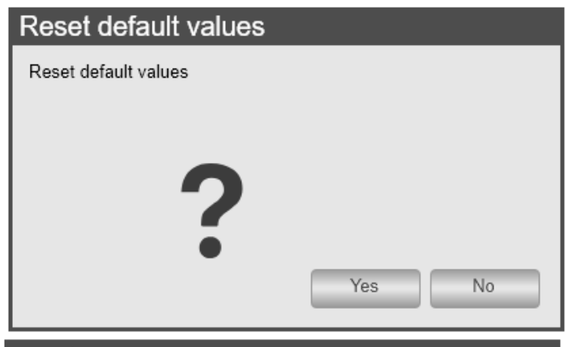
blank page

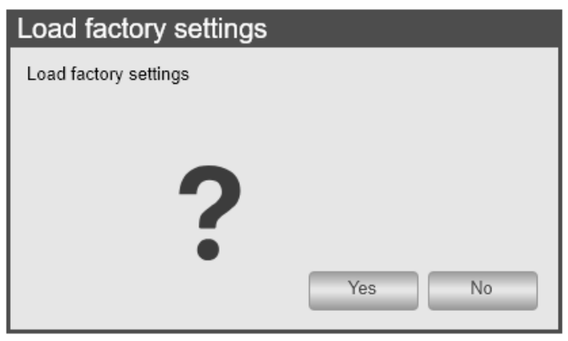
dialogues

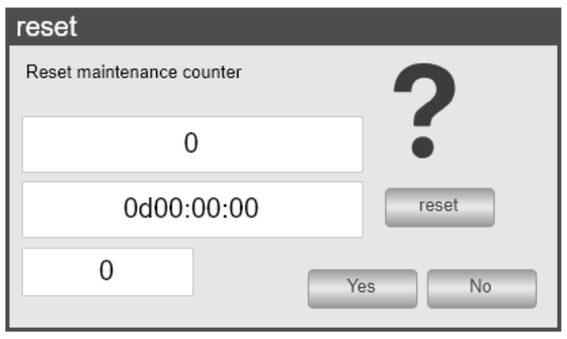


Time entry form

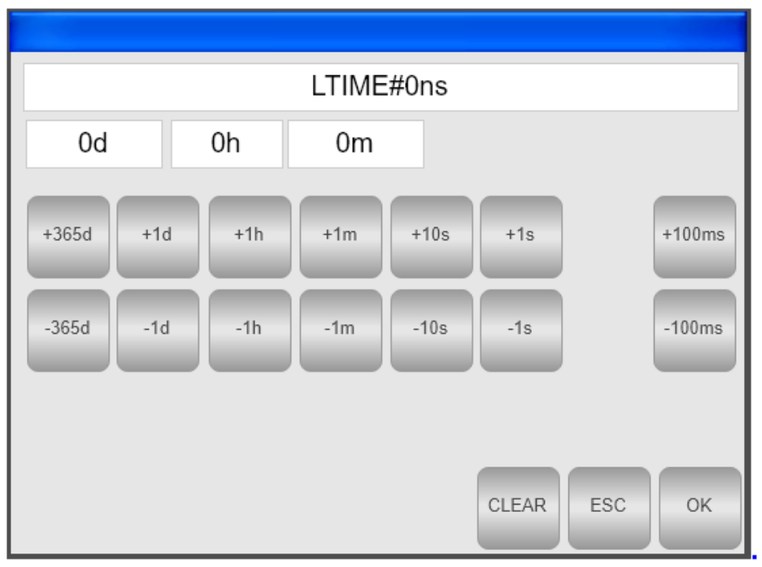




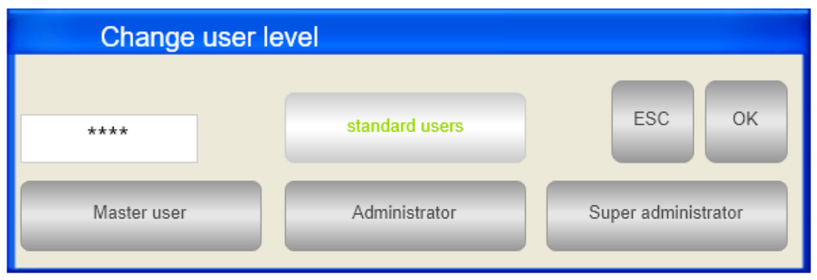




Dialog for maintenance counter



Dialogue for big times like the hour meter



Login

Alarm texts of the alarm group gError

Alarm groups GError ACK, GError SFC and Warning Start conditions:
O Any error from these two groups triggers the operation mode "Emergency operation". After expiry of the monitoring time for emergency operation, the control system switches to the "RESTART" operating mode
When rectifying and acknowledging errors occur during the emergency control period, the control system switches to the "Auto" operating mode.
o restart of the "Auto "(Except warning start conditions)

100	Emergency stop
101	Fault EK1100 PLC2
102	Fault EL1008 PLC3
103	Fault EL1008 PLC4
104	Fault EL1008 SPS5
105	Fault EL2008 PLC6
106	Fault EL2008 SPS7
107	Fault EL3202 SPS8
108	Fault i550 Ethercat
109	overfill protection

Alarm texts of the alarm group GErrorSFC

200	ERROR filling pump on timeout
201	ERROR filling pump Off Timeout
202	ERROR emptying pump on timeout
203	ERROR emptying pump Off Timeout

Alarm texts of the alarm group GError ACK

301	Load cell 1 TEMPUR
302	Load cell 1 TEMPOR
303	Load cell 1 ECOMUR
304	Load cell 1 ECOMOR
305	Load cell 1 CRAWUR
306	Load cell 1 CRAWOR
307	Load cell 1 LCINTEG
308	Load cell 2 TEMPUR
309	Load cell 2 TEMPOR
310	Load cell 2 ECOMUR
311	Load cell 2 ECOMOR
312	Load cell 2 CRAWUR
313	Load cell 2 CRAWOR
314	Load Cell 2 LCINTEG
315	Load cell 3 TEMPUR
316	Load cell 3 TEMPOR
317	Load cell 3 ECOMUR
318	Load cell 3 ECOMOR
319	Load cell 3 CRAWUR
320	Load cell 3 CRAWOR
321	Load cell 3 LCINTEG
322	Load cell 4 TEMPUR
323	Load cell 4 TEMPOR
324	Load cell 4 ECOMUR
325	Load cell 4 ECOMOR
326	Load cell 4 CRAWUR
327	Load cell 4 CRAWOR
328	Load Cell 4 LCINTEG
329	Fault Connection Inverter Drum
330	Fault Fan 1
331	Fault fan 2
332	Maintenance counter 3 expired
333	Fault inverter drum
334	Fault load cell 1 no connection
335	Fault load cell 2 no connection
336	Fault load cell 3 no connection
337	Fault load cell 4 no connection
338	Fault scrubber air temperature
339	ERROR flushing pump
340	Filling pump motor protection switch faulty
341	Emptying pump motor protection switch faulty
342	Fault heating pump
343	Fault heat quantity counter
344	Fault release from scrubber
345	Fault scrubber collective malfunction

Alarm texts of the alarm group GWarning

Alarm group Warning and Warning SFC:
Es only one entry is made in the alarm list, the system does not react.

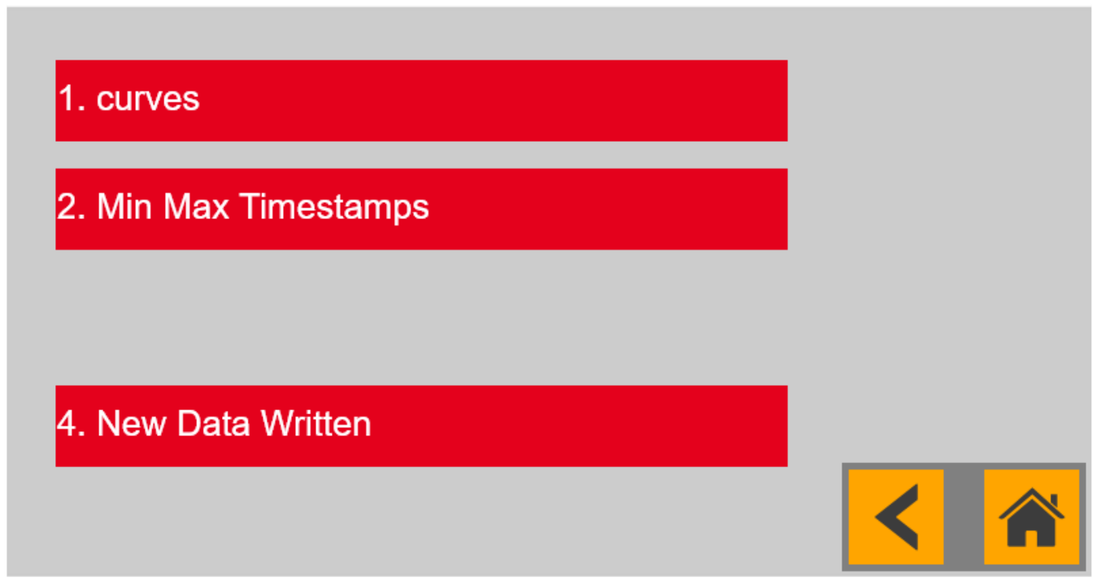
401	Undertemperature limit reached!
402	Maintenance counter 1 expired
403	Maintenance counter 2 expired
404	Plant stop from operating mode
405	PT100 supply air temperature sensor wire break
408	PT100 supply air temperature sensor overrange
409	PT100 supply air temperature sensor underrange
410	PT100 heating system return sensor wire break
413	PT100 heating system return sensor overrunning
414	PT100 heating system return sensor underrange

Alarm texts of the alarm group GWarningSFC

500	ERROR Filling valve open Timeout
501	ERROR Filling open External Timeout
502	ERROR filling level Max reached
503	ERROR filling Time reached
504	ERROR Filling External close Timeout
505	ERROR Filling valve close Timeout
506	ERROR Drying time reached
507	ERROR Emptying valve open Timeout
508	ERROR Emptying External open Timeout
509	ERROR level reached min
510	ERROR emptying Time reached
511	ERROR Emptying External close Timeout
512	ERROR Emptying valve close Timeout
513	ERROR Flushing pump on timeout
514	ERROR Flushing pump Off Timeout
515	ERROR drying Level Min reached
516	ERROR filling level Max reached filling counter
517	ERROR filling time reached counter
518	ERROR drying time reached counter
519	ERROR fill level Min reached drying counter
520	ERROR level Min reached emptying counter
521	ERROR time reached emptying counter

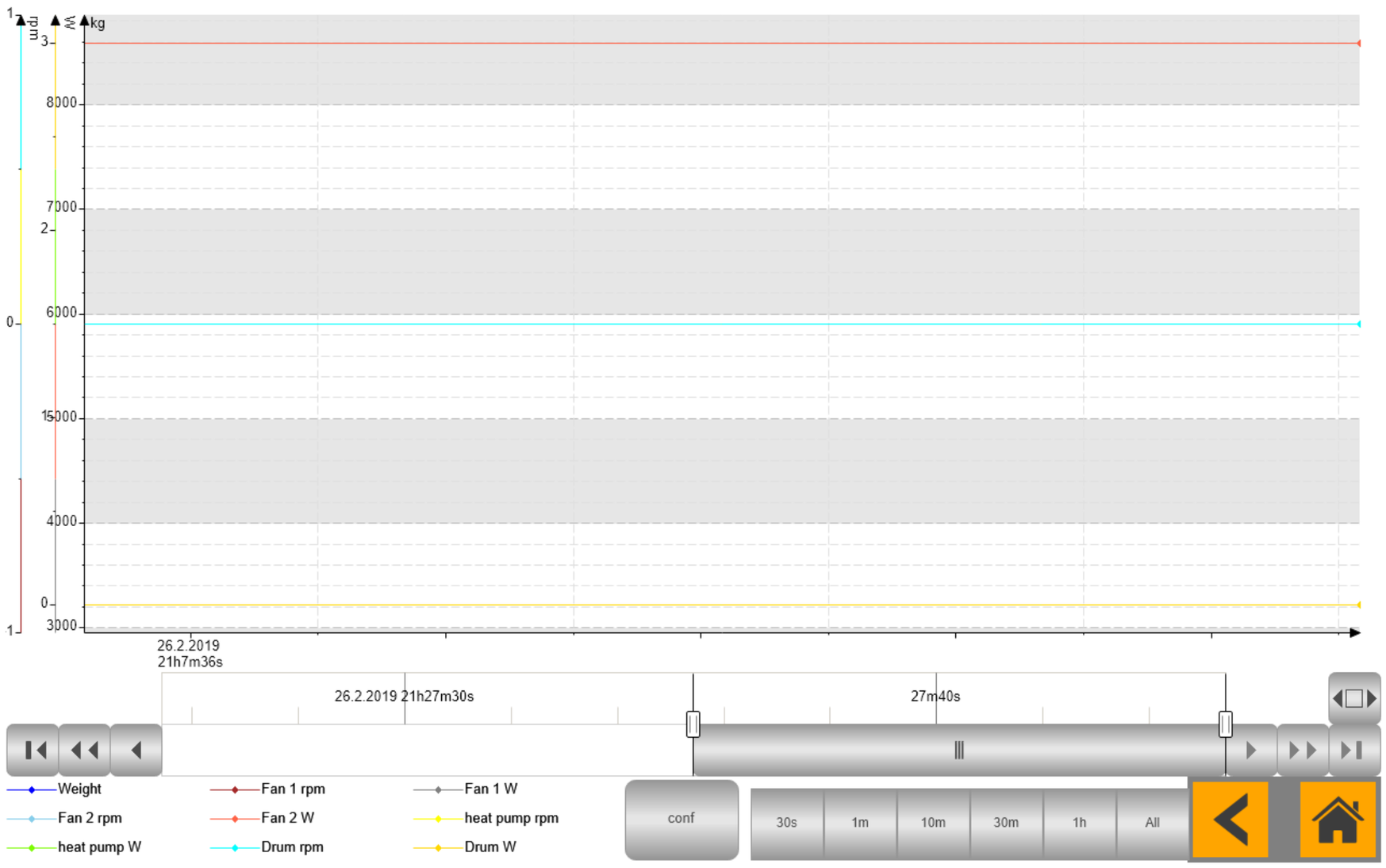
Alarm texts of the alarm group GWarningStartConditions

601	ERROR Start Condition Filling valve not Closed
602	ERROR Start condition Emptying valve not Closed
603	ERROR start condition Filling valve open
604	ERROR Start Condition Filling valve Open
605	ERROR start condition Buffer level
606	ERROR start condition flushing pump



1. curves

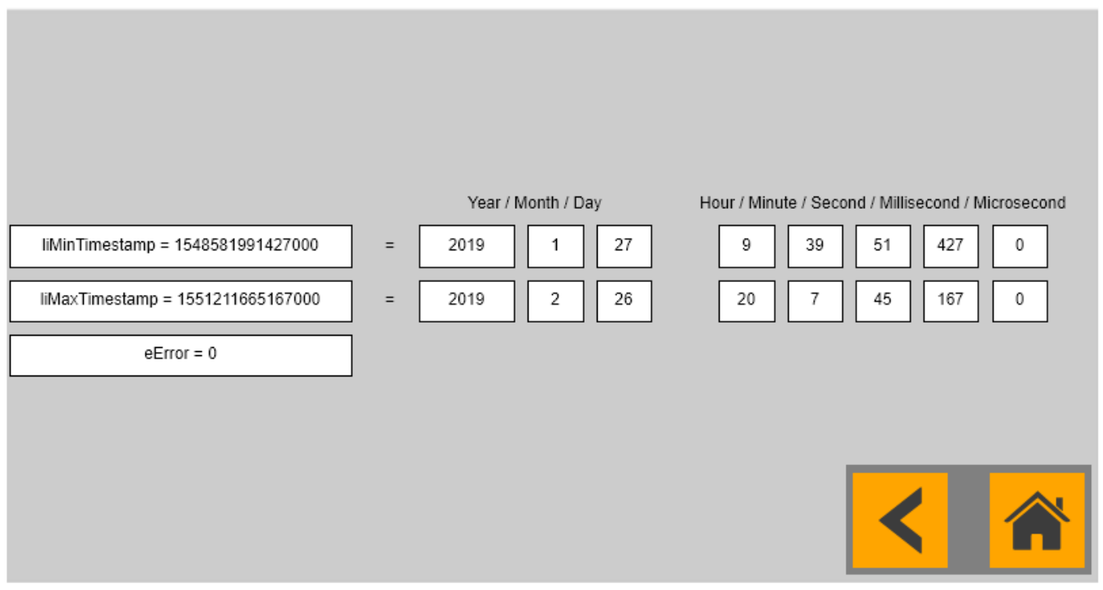
Curves graphically displays the recorded values of the listed sensors or loads.



1. curves

...

2. Min Max Timestamps



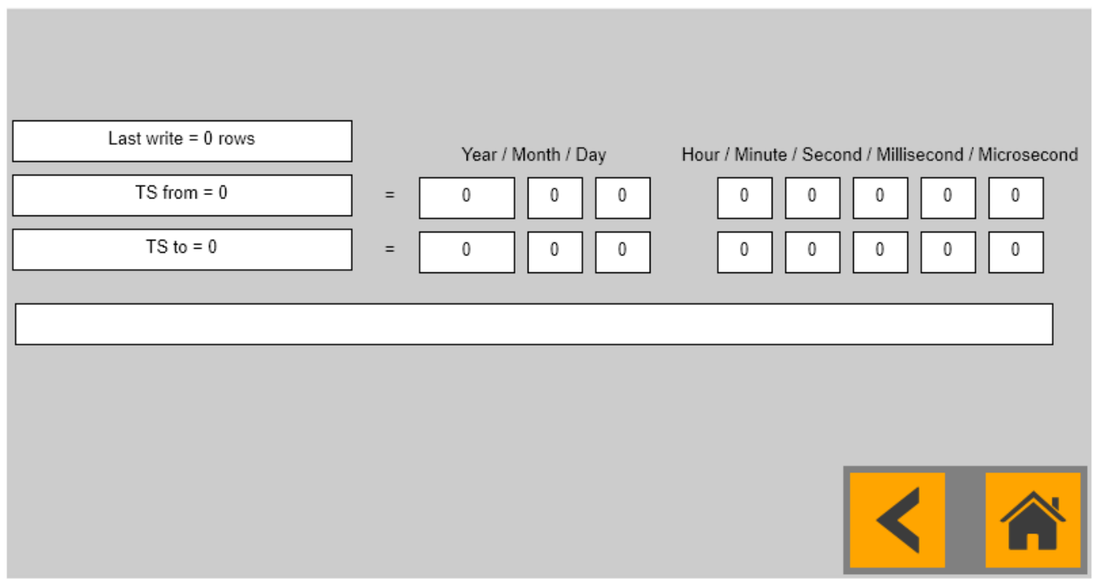
2. Min Max Timestamps

Curves graphically displays the recorded values of the listed sensors or loads.

-

...

4. New Data Written



4. New Data Written

...

automatic Sequencer

Off
init
Filling
Drying
emptying
alarm
automatic
hand
Test start conditions A
Test start conditions B
Test start conditions C
Test start conditions D
Test start conditions E
Test start conditions F
OK No alarm
OK Start condition Filling valve Closed
ERROR Start Condition Filling valve not Closed
OK Start condition Emptying valve Closed
ERROR Start condition Empying valve NOT Closed
OK Start condition Filling valve NOT open
ERROR start condition filling valve open
OK Start condition Emptying valve NOT open
ERROR Start Condition Emptying valve Open
OK Start condition Buffer level
ERROR start condition buffer level
OK start condition flushing pump
ERROR start condition Flushingl pump
Fan off
Fan on
OK start conditionsfilled
StartFilling Log
Filling Valve open
OK filling valve open
ERROR Filling valve open Timeout
Filling Valve open external
OK filling valve On external
ERROR Fillling valve open External Timeout
Filling pump on
OK filling pump On
ERROR Fill pump on timeout
OK filling pump is running
OK Filling
Filling pump off
OK filling pump off
Filling pump break caster
Filling valve close external
OK filling valve To external
filling valve close
OK filling valve closed
Wait for filling
Histogram Overrun Correction Filling
ERROR filling level Max reaches Filling
ERROR Time reached Filling
ERROR Fill Pump Off Timeout
ERROR Filling valve close external timeout
ERROR Filling valve close Timeout
Mflush
Start Drying Log
MDrying
Wait for Drying
Start Emptying log
Empty valve open
waiting period end of cycle
Histogram Overrun Correction Drying
OK emptying valve open
ERROR Emptying valve open Timeout
Empty valve open external
OK emptying valve open external
ERROR Emptying valve open external timeout
Empty pump on
OK emptying pump on
ERROR Empty pump on timeout
OK emptying pump is running
OK emptying
ERROR filling level Min reached empying
ERROR Time reached Emptying
Empty pump off
OK emptying pump off
ERROR Empty Pump Off Timeout
Empty pump break caster
Empty valve close external
OK emptying valve closed external
ERROR Emptying valve close external timeout
Empty valve close
OK emptying valve closed
ERROR Emptying valve close Timeout
Wait for emptying
Histogram Overrun Correction Emptying
End of cycle Log
Finish detoxifying B
flushing pump on
OK flushing pump on
ERROR Flushing pump On timeout
OK flushing pump is running
flush
OK flushing
flushing pump off
OK flushing pump Off
ERROR Flushing pump Off Timeout
flushing break caster
OK Drying
ERROR Level Min reached drying
ERROR time reached Drying
Set Standard user
standard users
Administrator
Master user
Leakage test running
Leakage test completed
Leakage test not necessary
Emergency run caster ramp C
hand break
Mauto
auto
Emergency running start conditions
Emergency running

automatic Sequencer

Emergency run caster ramp A

Emergency run caster ramp B

stop system

INIT ACT step chain

STEP Read LoadcellA

STEP Read LoadcellB

STEP Read LoadcellC

STEP Read LoadcellD

blinker

Lighting system stop

Luminous X Fault

slowly blinking

Off before auto

ERROR filling level Max reached

ERROR level reaches min

State

Start filling

Start filling

Start drying

Start emptying

End of cycle

Logger

End_Cycle_Time

End cycle weight
kg

End of cycle heat quantity
kWh

Start_emptying_Time

Start emptying weight
kg

Start emptying heat quantity
kWh

Start_Filling_Time

Start filling weight
kg

Start filling heat quantity
kWh

Start_Drying_Time

Start drying weight
kg

Start drying of heat
kWh

ID

Timestamp

____

Total amount of heat
kWh

Sum of evaporated weight in kg

Total_Time

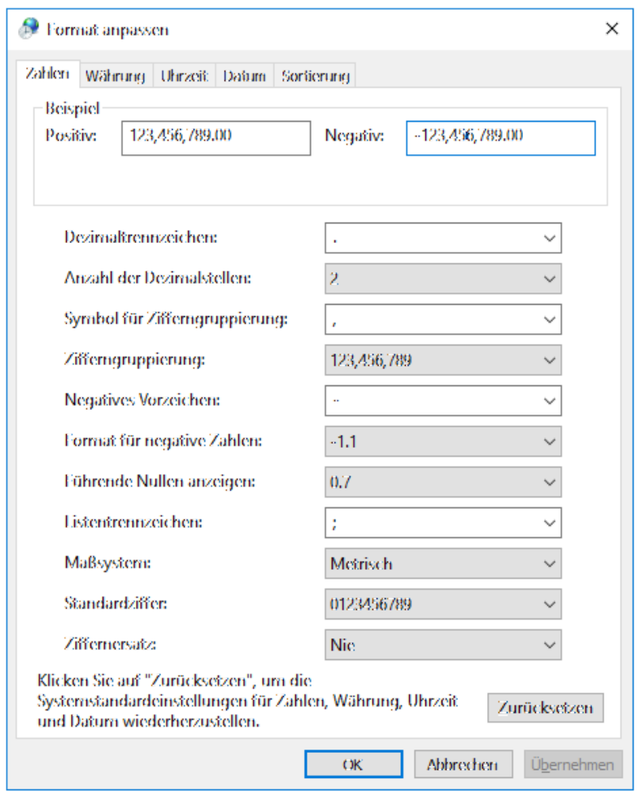
Kwh per kg

Operating mode Current Step

Sequencer Current Step

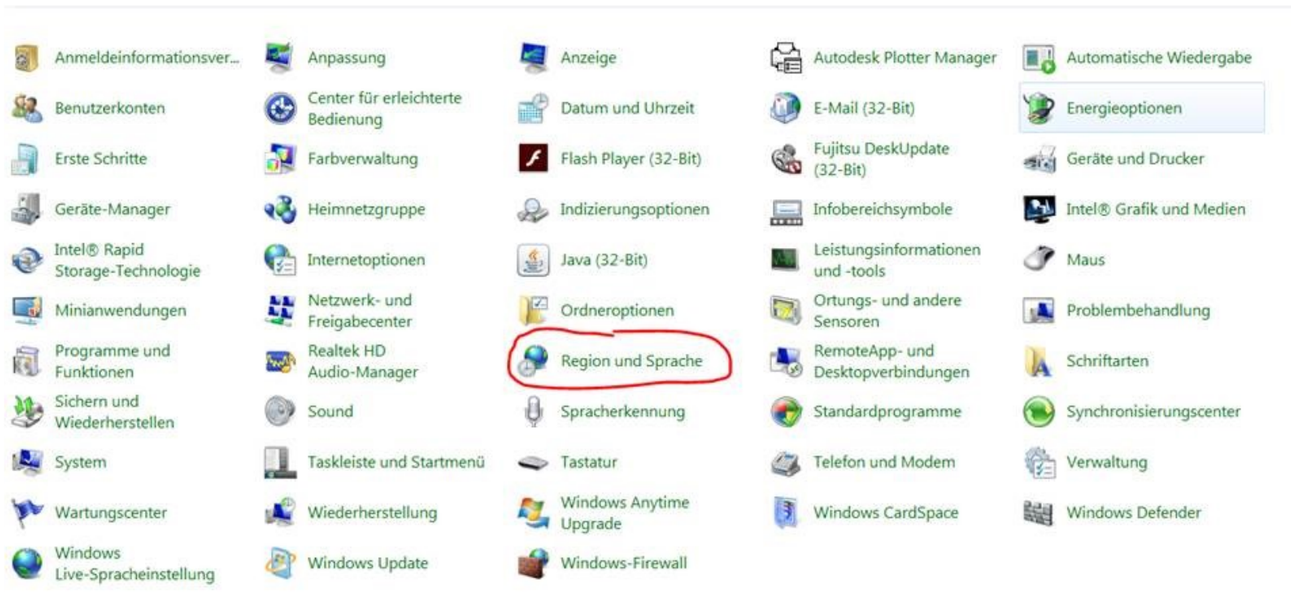
State

Datalogger



The data logger outputs data in 3 formats: $ R $ N $ R $ N1. HTML $ R $ N2. XML $ R $ N3. CSV $ R $ N $ R $ N $ R $ Note: CSV is output with the following settings: $ R $ NDecimal separator:. (Dot) $ R $ NFseparator:; (Semicolon) $ R $ NFeldlimber: $ "Quotes

Select these settings in the Windows Control Panel



Use of the logged data in .csv format (Excel export):

FFor
the error-free display of the logged data in .csv format (eg Excel), countries that use "comma" as the decimal separator (Example: 1.000,00) requires the decimal separator to be changed to "dot" (example: 1.000.00).

Because the RondoDry
standard control is the same for all countries, the decimal separator of "comma" must be in the following countries "Point" will be changed to:
$Albania, Andorra, Argentina, Belgium, Bolivia, Brazil, Bulgaria, Chile, Denmark, Germany, Ecuador, Estonia, Faroe Islands, Finland, France, Georgia, Greece, Greenland, Indonesia, Iceland, Italy , Colombia, Kosovo, Croatia, Cuba, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Austria, Paraguay, Peru, Poland, Portugal, Romania, Russia, Sweden, Serbia, Zimbabwe, Slovakia, Slovenia, Spain, South Africa , Czech Republic, Turkey, Ukr aine, Hungary, Uruguay, Venezuela, Belarus

When using Windows as the operating system, the changeover occurs as follows:

Click "Start" (the round
Windows icon on the lower left) and then "Control Panel."

Click "Region and Language" (Windows 10: "Language").

In the "Region and Language" menu, please click on "Additional Settings". $ R $ NIn the menu "Customize Format", the decimal separator must be "dot" (.) And the symbol for the grouping of numbers must be "comma" (,). $ R $ NThe entry is to be confirmed with "Accept" and "OK". $ R $ N