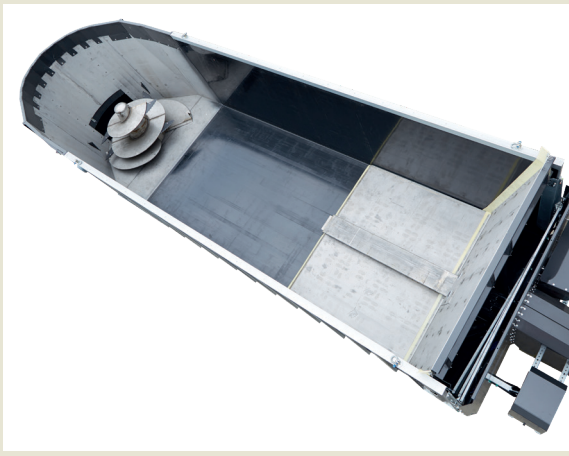
Operating instructions

Part B **main screen overview**



We are Fliegl.

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Contact details

Manufacturer details

Fliegl Agrartechnik GmbH
Bürgermeister-Boch-Straße 1
DE - 84453 Mühldorf am Inn

Telephone: +49 (0)8631 / 307 - 0
Fax: +49 (0)8631 / 307 - 550
E-Mail: info@fliegl.com
Internet: www.fliegl-agrartechnik.de

Back office & technical support

Fliegl Dosiertechnik
Bürgermeister-Boch-Straße 1
DE - 84453 Mühldorf am Inn

Telephone: +49 (0)8631 / 307 - 351
Fax: +49 (0)8631 / 307 - 552
E-Mail: dosiertechnik@fliegl.com
Internet: www.fliegl-dosiertechnik.de

Formal details of operating instructions

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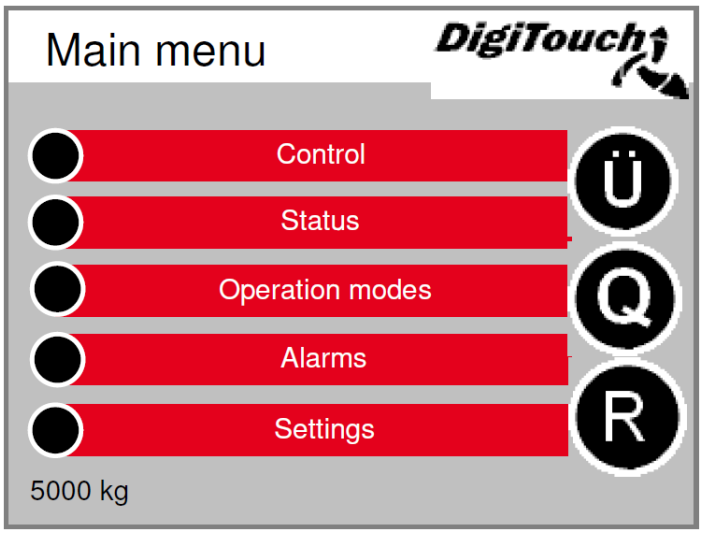
Language of original operating instructions: German
(Translation of original operating instructions)

1. Start screen

DigiTouch Bio welcomes you. Select the word "START" to acess the main menu.

2. Main menu

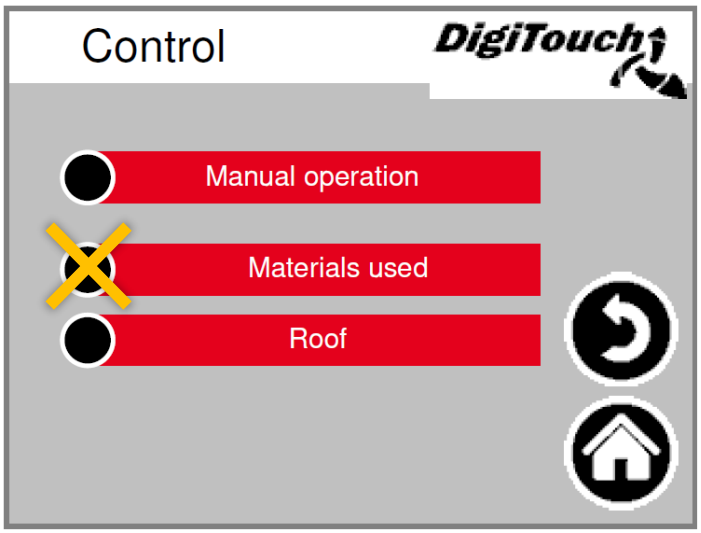
This is the main menu. By pressing the "Home" symbol you can return here at any time.
If the letter "R" appears next to the alarm symbol, you can reset the FC.
With the letter "Ü" you can return to the overview page, with "Q" you will enter Feeding.



2.1 Menu control

In this menu you can control filling and hand operations. When the black circle is crossed through, the menu is thus inactive, because the incorrect operating mode is currently selected.

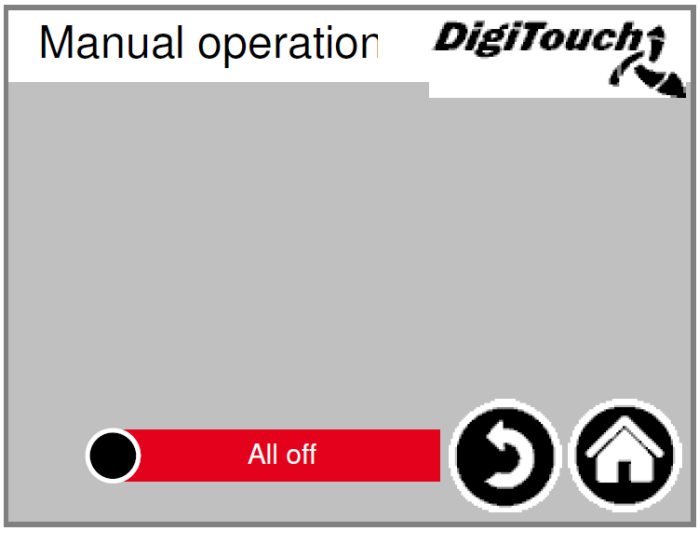
Main menu ➔ Control



2.1.1 Manual operation

This screen provides no function. Except for other system types. (See section **Fehler! Verweisquelle konnte nicht gefunden werden.**.)

Main menu ➔ Control ➔ Manual operation



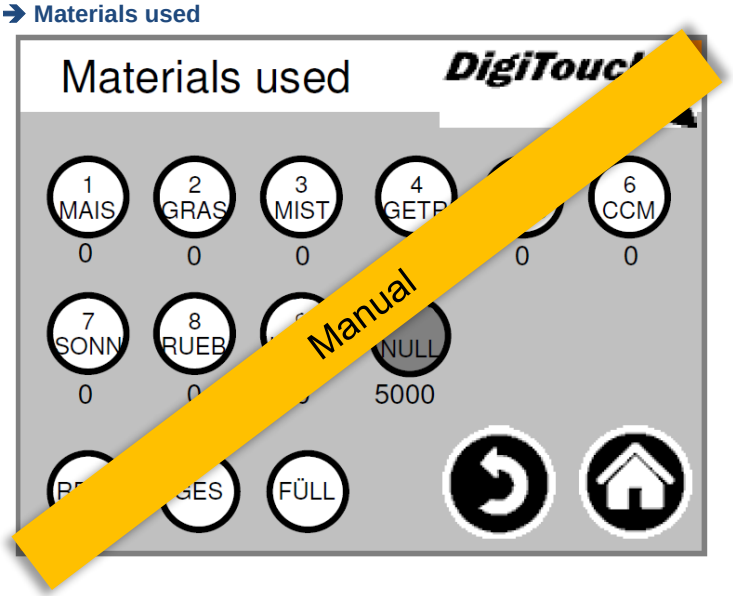
Type 0 has no manual operation!

2.1.2 Menu materials used

This menu offers the same functions as the radio remote control. It provides a way of replacing this should, for example, the batteries fail.

Button REST: From the target quantity from the page products the filled quantity is subdracted.
Button GES: Here is only shown the gross weight on the large display.
Button FÜLL: Here is shown the filled quantity.

Main menu ➔ Control ➔ Materials used

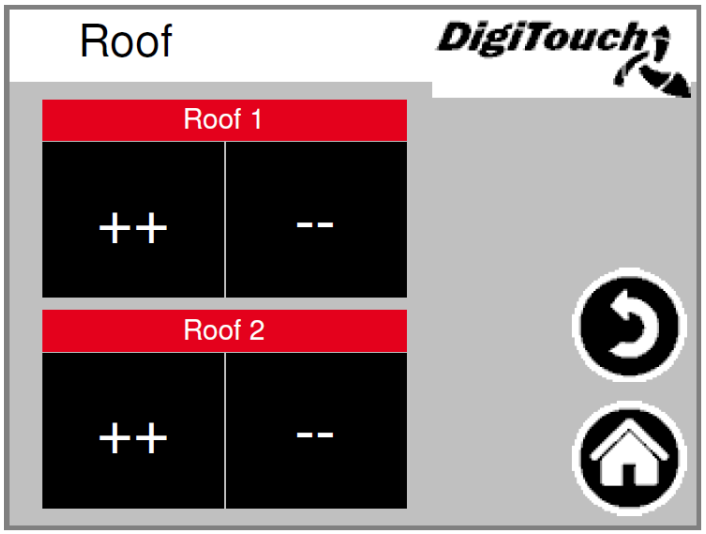


ATTENTION! If GES is selcted, the two line display has one line because the weight is displayed big.

2.1.3 Roof

By pressing the "**++**" button opens the roof.
The "**--**" button closes the roof.

Main menu ➔ Control ➔ Roof



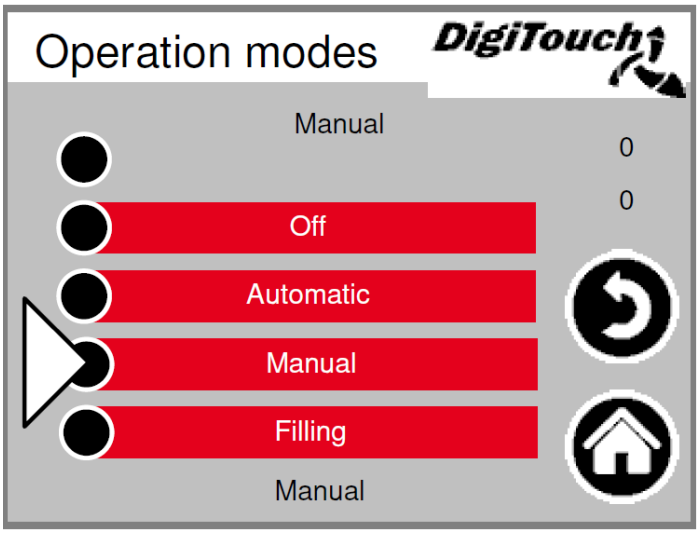
2.2 Menu status

The menu status for the various system types is described in Chapter **Fehler! Verweisquelle konnte nicht gefunden werden.** of the operating instructions.

2.3 Operating mode selection

PART A of the manual has a more detailed description of the selection of the operation start.
The selected operation start is indicated with a triangle. There are circumstances where the pressing of a button does not necessarily lead to a mode being changed, since for example, the return must be carried out first.

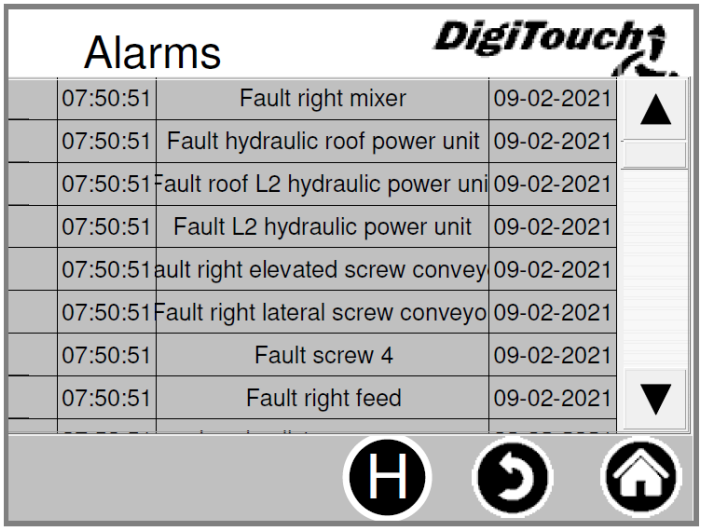
Main menu ➔ Operation modes



2.4 Page alarms

The pending alarms are shown here. Alarms, which are not in the queue, disappear from this list immediately. The alarms need not be confirmed or acknowledged. Particular executions of the frequency converters are an exception. With button "H" a history of past alarms can be shown.

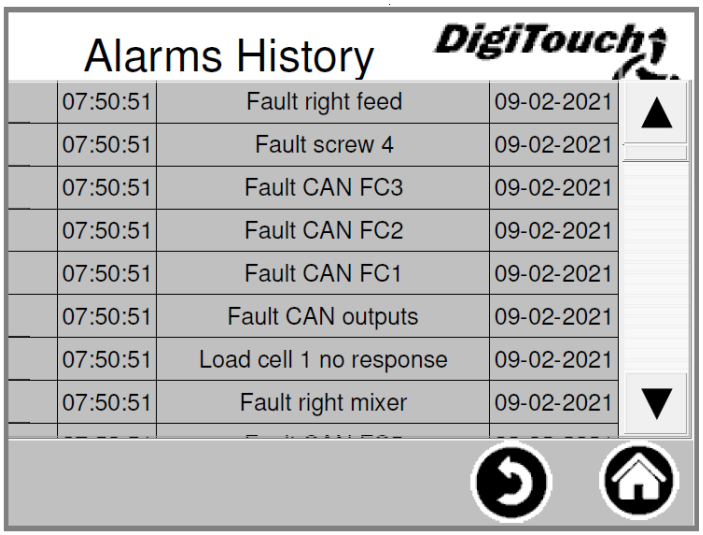
Main menu ➔ Alarms



2.4.1 Alarm history page

Past alarms are shown here. In the menu "free memory" (See section **Fehler! Verweisquelle konnte nicht gefunden werden.**) can the history be deleted.

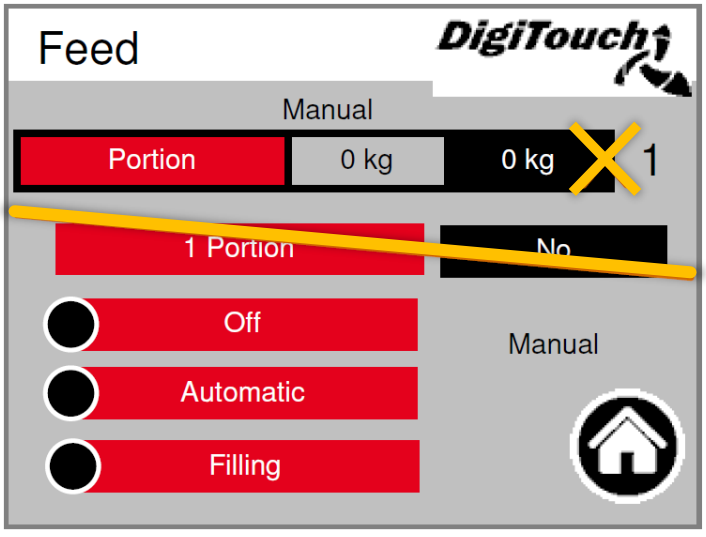
Main menu ➔ Alarms ➔ H



2.5 Menu feed

The portion can only be adjusted by **OFF** or **filling**, in automatic a yellow cross shows that it is locked for input. Here can the portion be feeded, here the operation mode can be selected.
This settings are also on other pages.

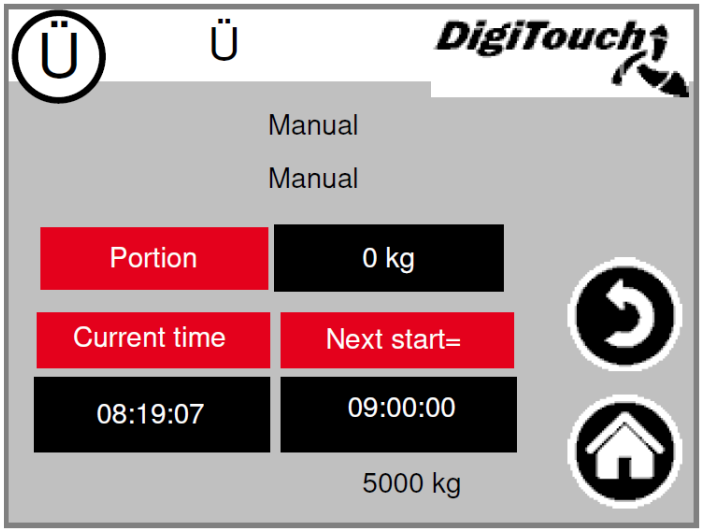
Main menu ➔ Q



2.6 Menu overview

Here is the overview about the next feeding and the portion.

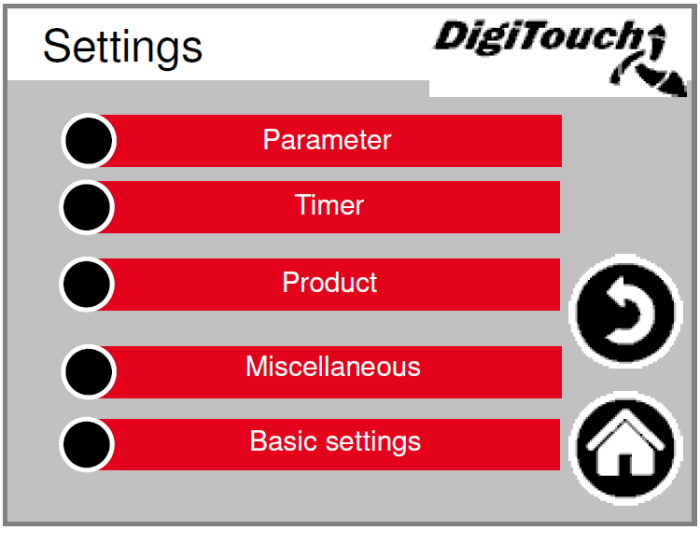
Main menu ➔ Ü



2.7 Menu settings

In this menu the equipment can be configured.
A separate description of each individual point can be found below.

Main menu ➔ Settings



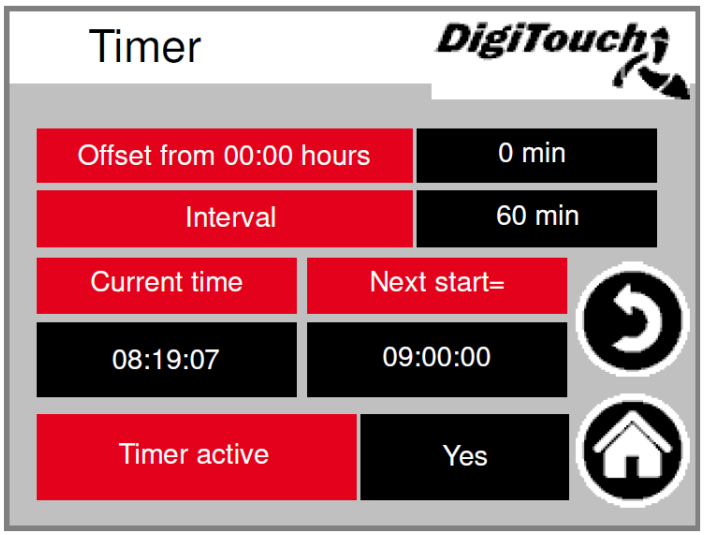
2.7.1 Configure parameter/s

See section **Fehler! Verweisquelle konnte nicht gefunden werden.**.

2.7.2 Timer

Here you can edit the integrated timer settings. You can enable or disable them below.

Main menu ➔ Settings ➔ Timer

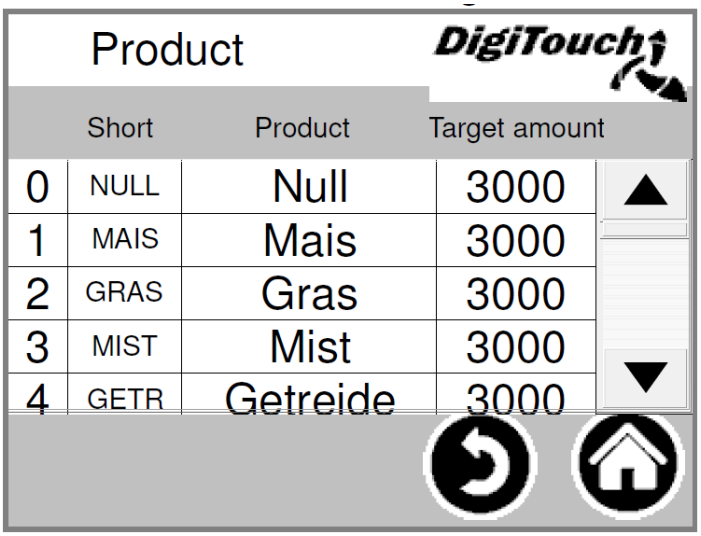


ATTENTION! When there is an external control present, this would normally take over the function of the timer. This should then be set to inactive here.

2.7.3 Edit product

This menu allows you to enter both the name of the product and the target amount.
The names are processed in any case, but they only are displayed at the 1. of every month in the input material diary. The quantities are used only if the operating moder "REST" on the page input material or the remote control is selected.

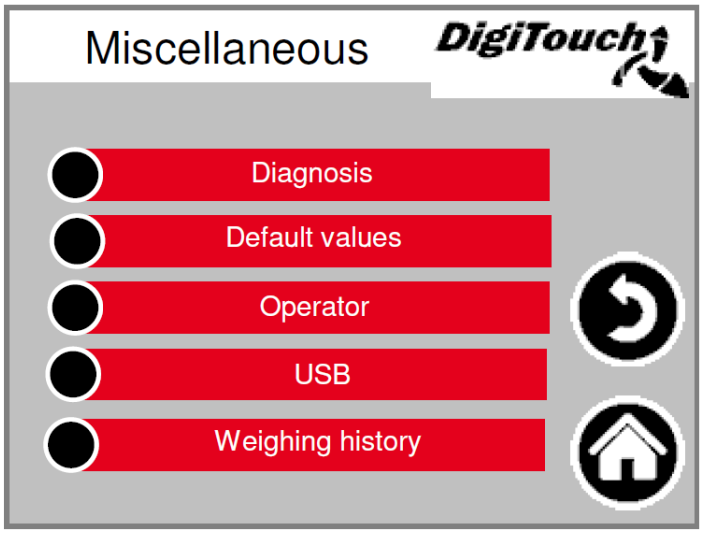
Main menu ➔ Settings ➔ Product



2.7.4 Menu miscellaneous

Additional menu items, which are only selected occasionally. See section **Fehler! Verweisquelle konnte nicht gefunden werden.** and **Fehler! Verweisquelle konnte nicht gefunden werden.**.

Main menu ➔ Settings ➔ Miscellaneous

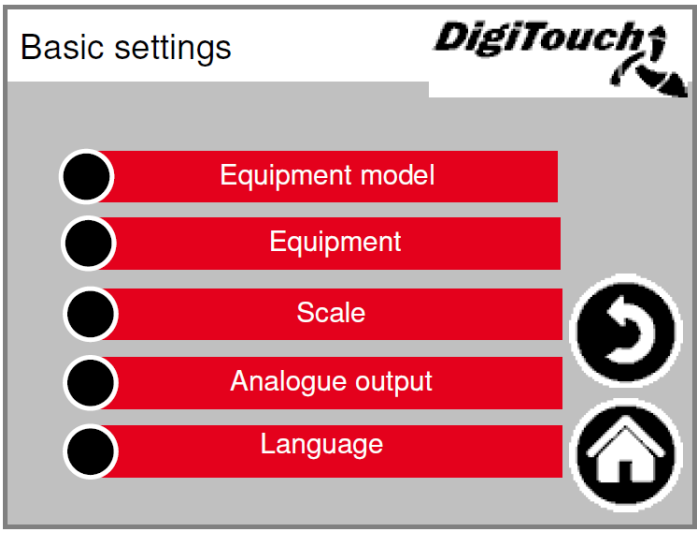


2.7.5 Menu default settings

Very basic settings can be configured in this menu.

System type and equipment are for users not available!

Main menu ➔ Settings ➔ Basic settings



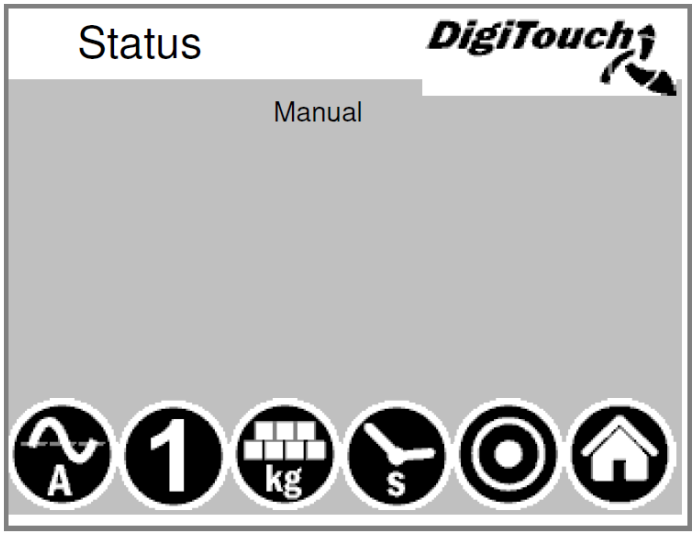
3. Menu status

3.1 TYP 0 - DigiTouch - Scale only

3.1.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

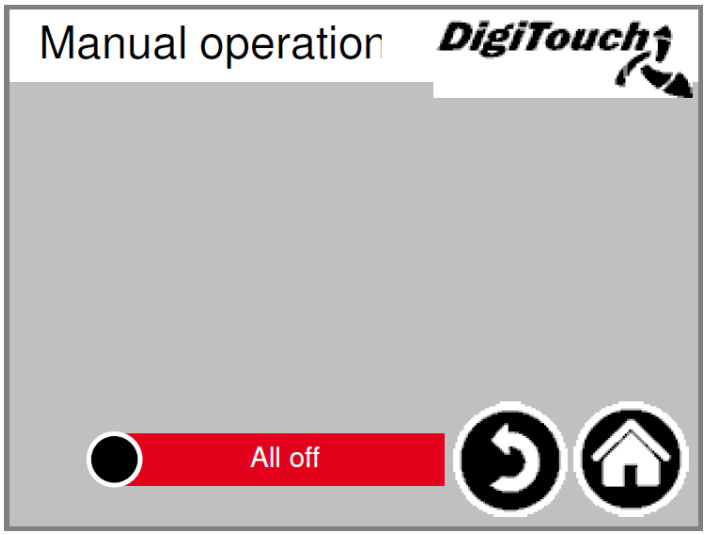
Main menu ➔ Status



3.1.2 Manual operation

This screen provides no function. Except for other system types. See section 3.2 to 3.14.
Type 0 has no manual operation!

Main menu ➔ Control ➔ Manual operation

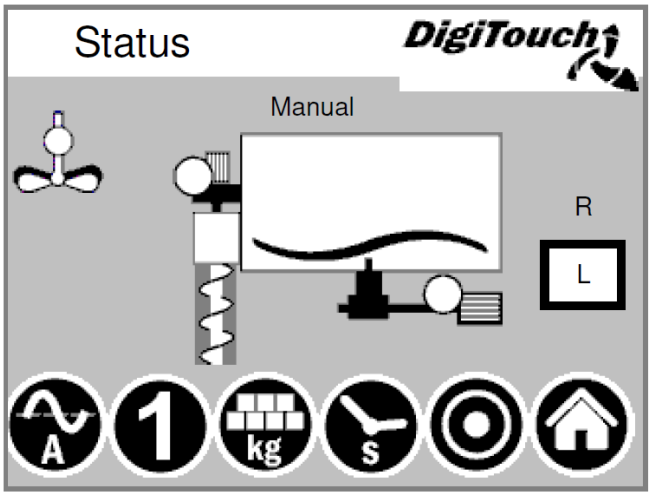


3.2 TYP 10 - Rondomat - lower feed

3.2.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

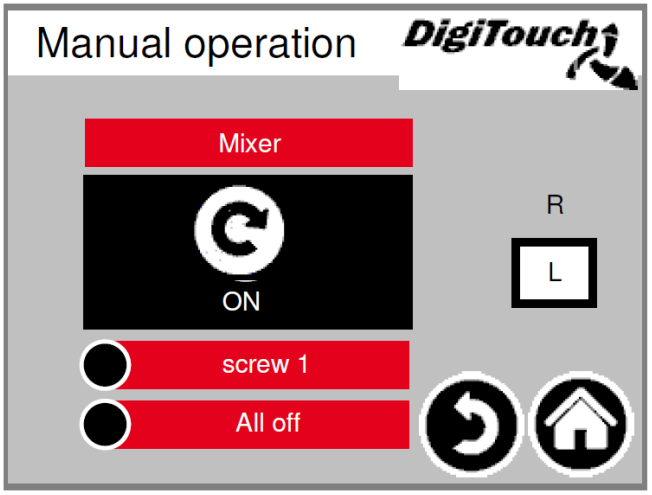
Main menu ➔ Status



3.2.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



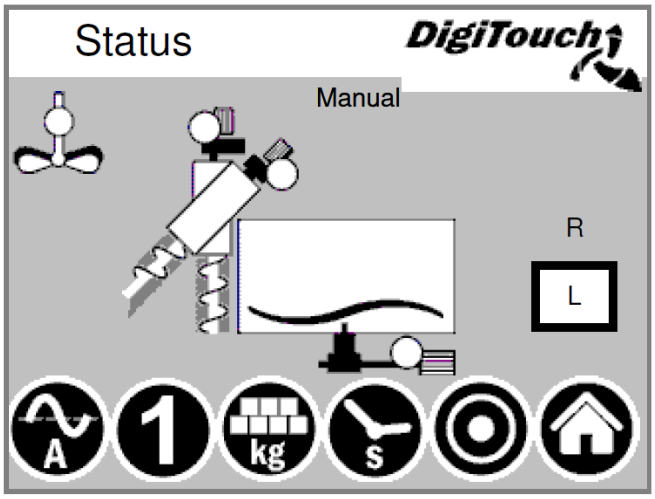
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.3 TYP 11 - Rondomat - upper feed

3.3.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

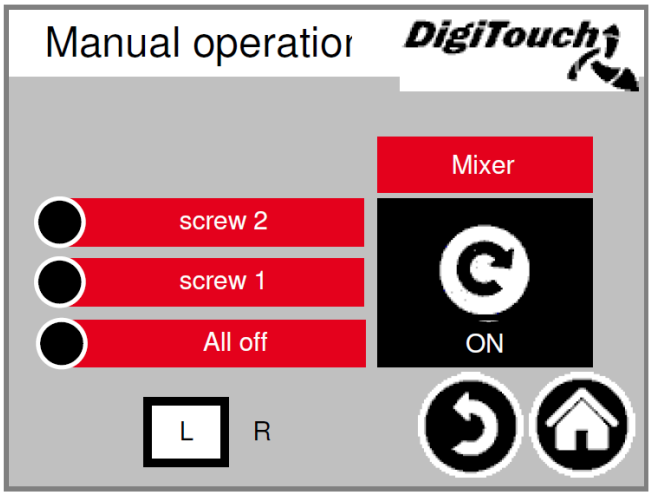
Main menu ➔ Status



3.3.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



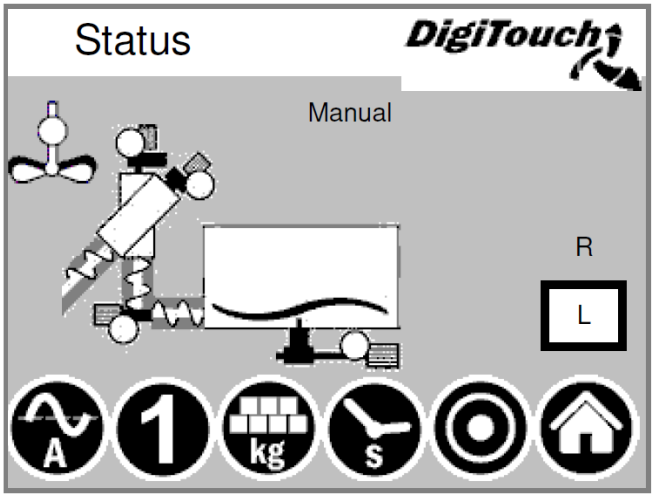
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.4 TYP 12 - Rondomat - upper rear feed

3.4.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

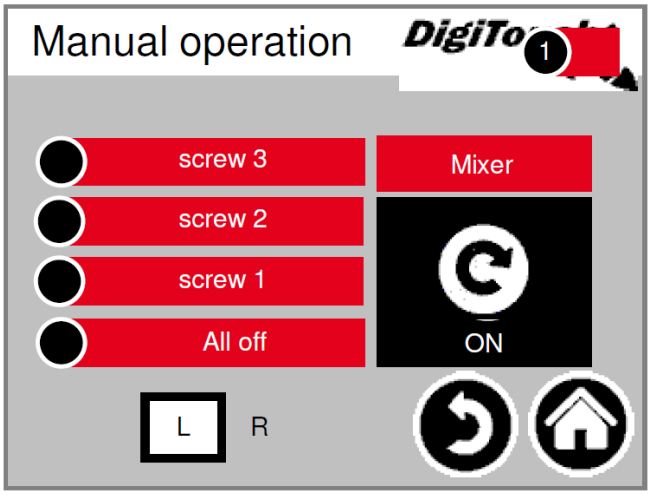
Main menu ➔ Status



3.4.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



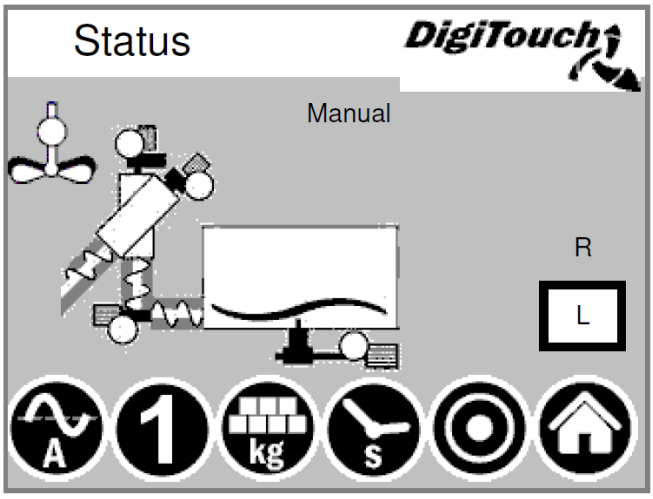
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.5 TYP 13 - Rondomat - upper rear feed

3.5.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

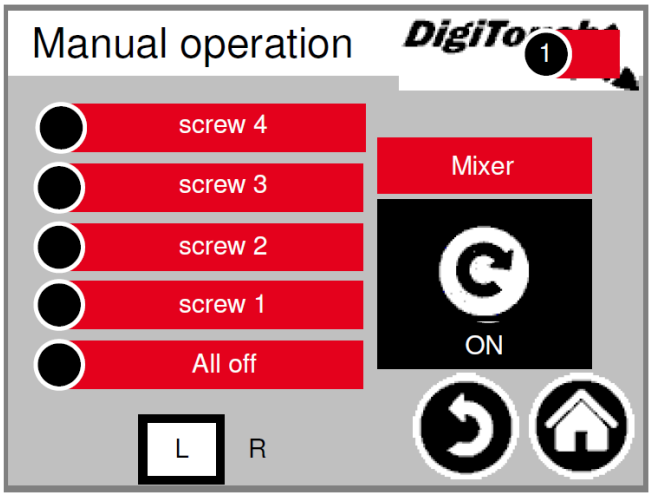
Main menu ➔ Status



3.5.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



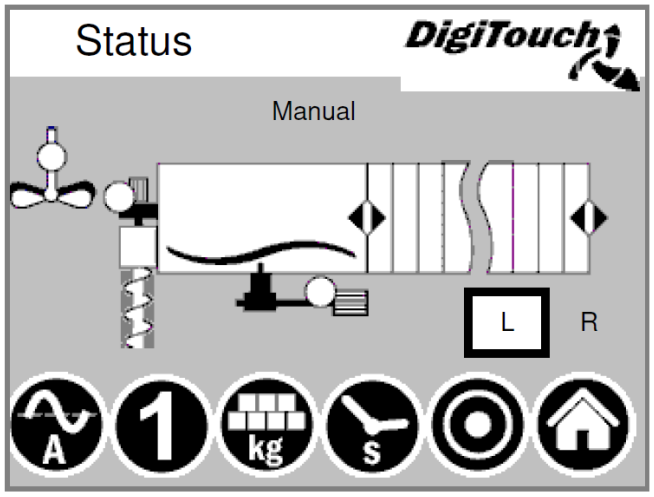
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.6 TYP 20 - extension Rondomat lower feed

3.6.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

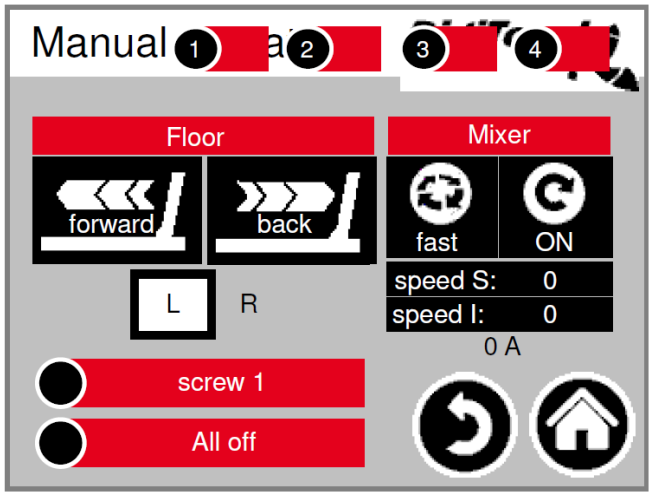
Main menu ➔ Status



3.6.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



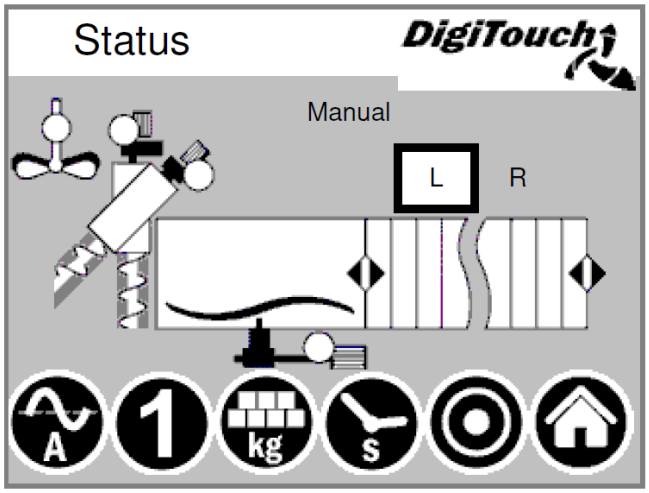
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.7 TYP 21 - extension Rondomat upper feed

3.7.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

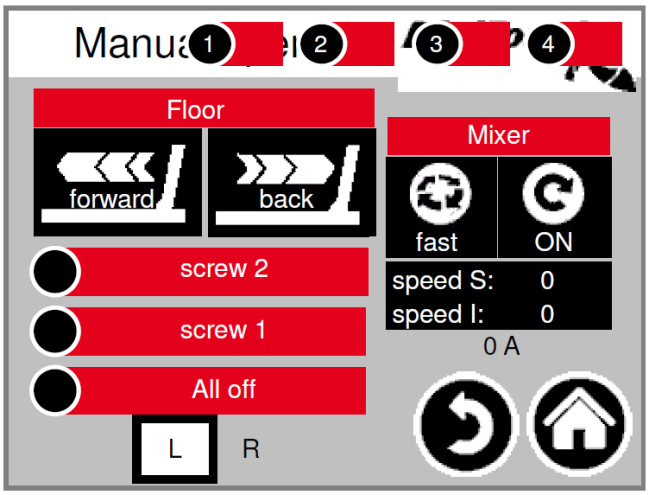
Main menu ➔ Status



3.7.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



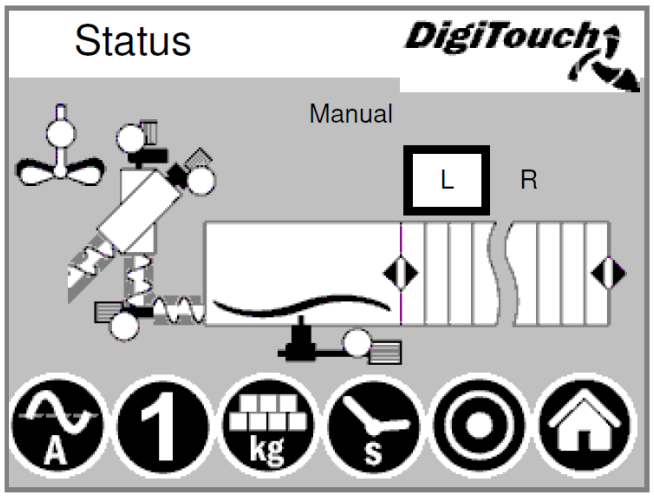
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.8 TYP 22 - extension Rondomat upper rear feed

3.8.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

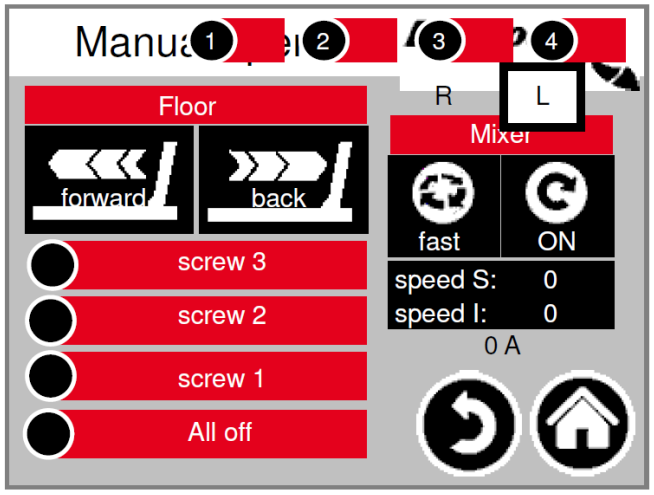
Main menu ➔ Status



3.8.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



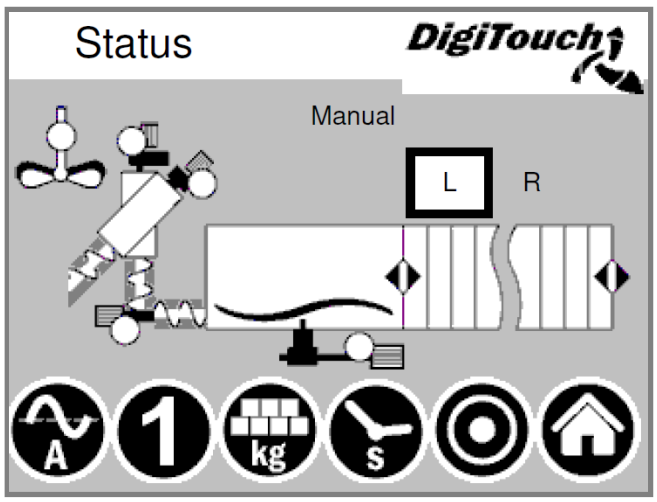
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.9 TYP 23 - extension Rondomat upper rear feed

3.9.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

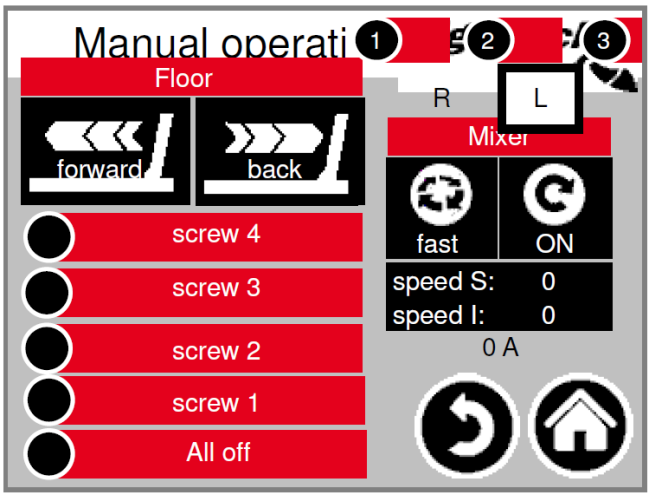
Main menu ➔ Status



3.9.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



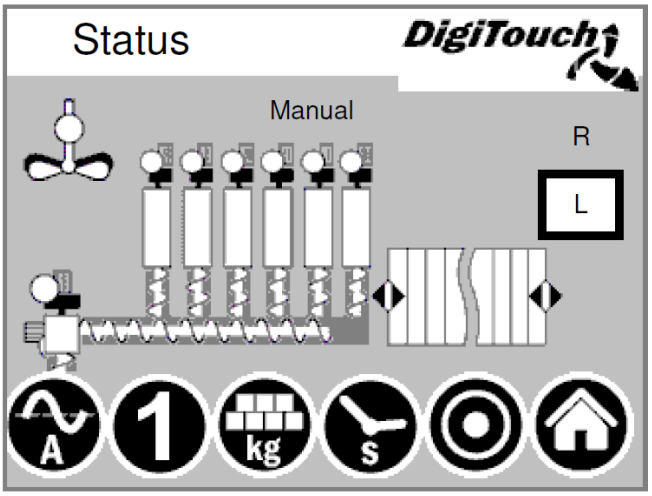
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.10 TYP 30 - Duplex lower feed

3.10.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

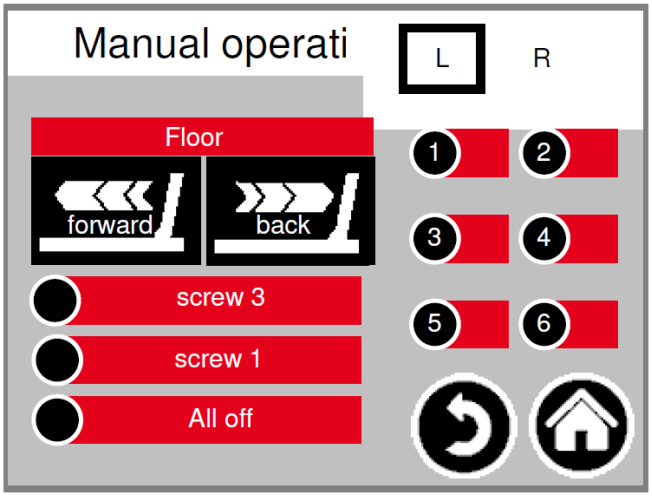
Main menu ➔ Status



3.10.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



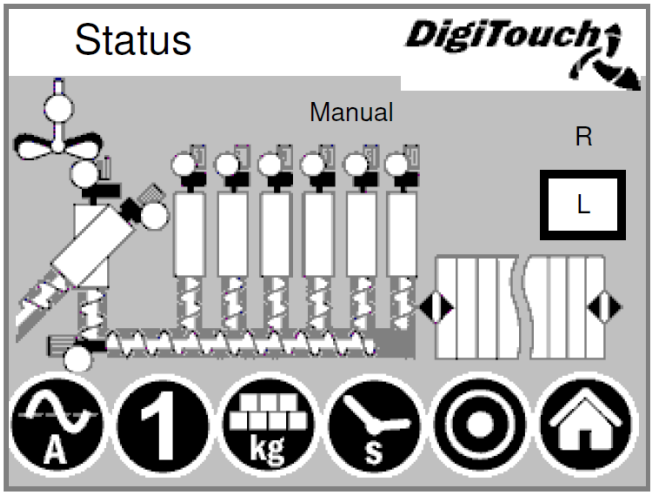
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.11 TYP 32 - Duplex upper feed

3.11.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

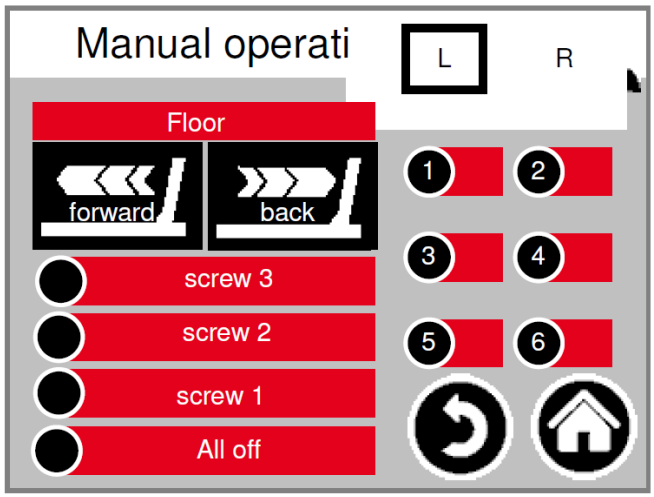
Main menu ➔ Status



3.11.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



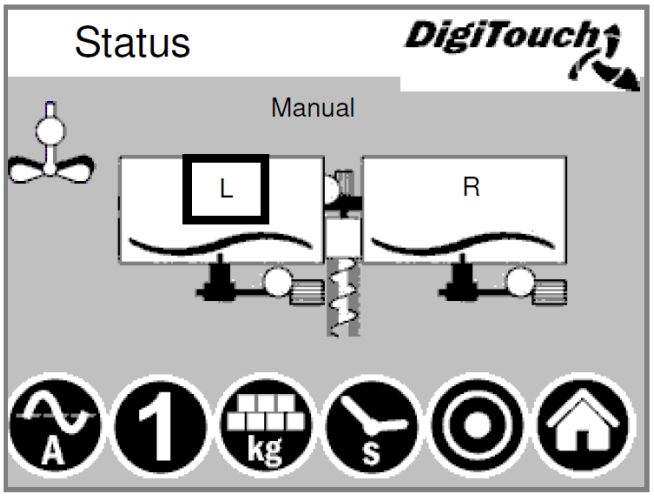
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.12 TYP 40 - Double Rondomat lower feed

3.12.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

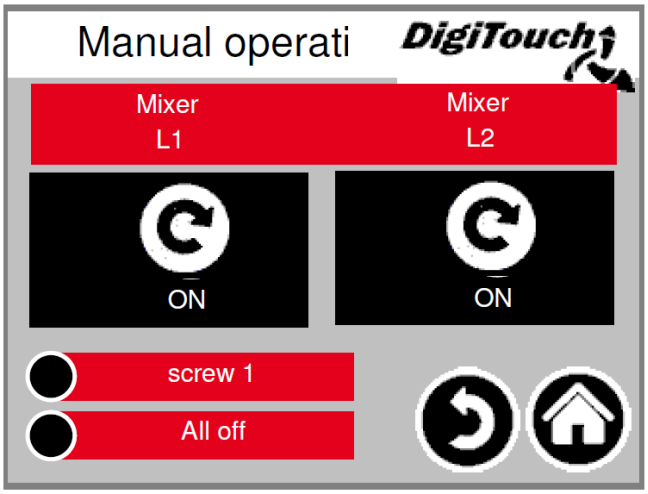
Main menu ➔ Status



3.12.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation



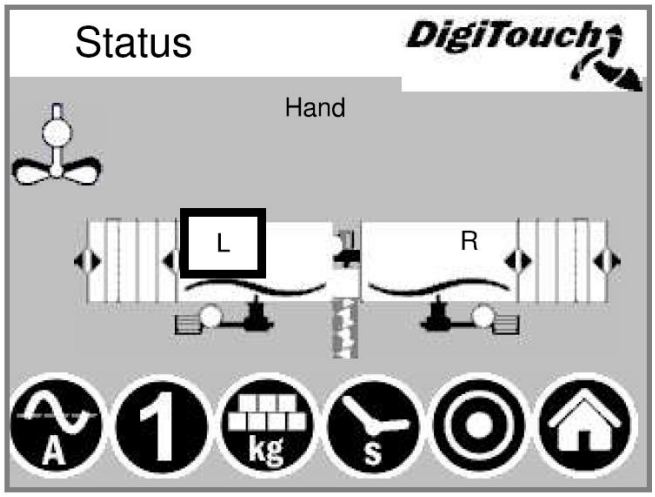
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.13 TYP 50 - Double Rondomat as Duplex lower feed

3.13.1 Status display

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

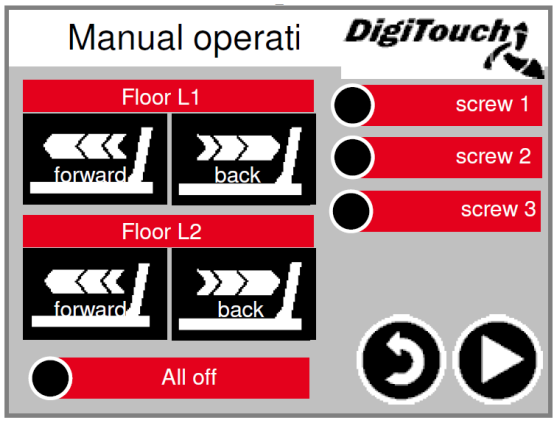
Main menu ➔ Status

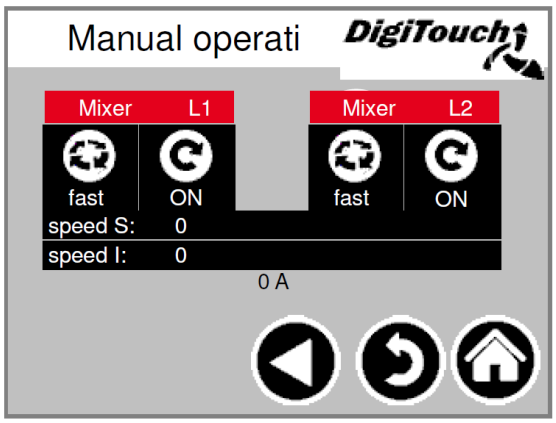


3.13.2 Manual operation

This screen facilitates manual operation of the individual drives. Normally this is not necessary. Before switch on the direction of rotation L/R (left/right fermenter) has to be selected, than the screw conveyor go`s left or right. This depends on the construction of the system and is shown in the system plan.

Main menu ➔ Control ➔ Manual operation





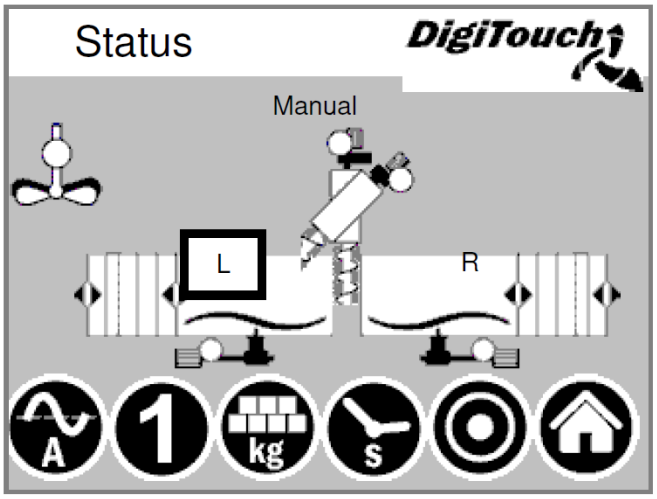
WARNING! No monitoring in this case.
Screen can only be used when manual operation has been selected.

3.14 TYP 51/52 - Double Rondomat as Duplex upper feed

3.14.1 Status display - TYP 51

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

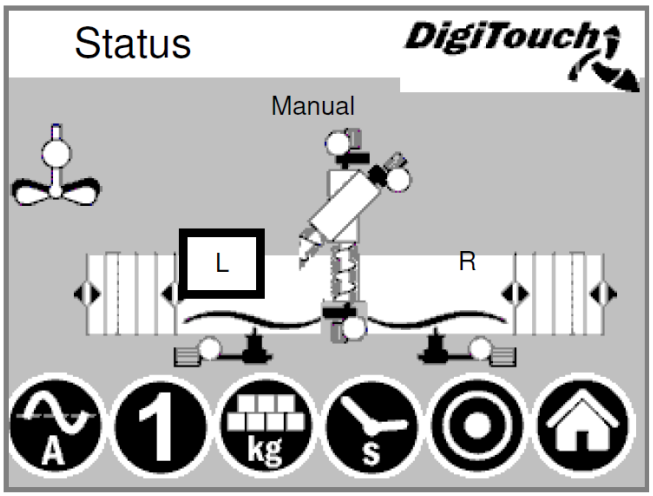
Main menu ➔ Status



3.14.2 Statusanzeige - TYP 52

The current stage is displayed at the top and the active motors (rotating white circles) directly in the middle of this screen. R/L shows which feeding container and/or the direction of rotation of the respective screw (right or left) of the respective fermenter. Only relevent for double systems. Below there are 5 symbols representing the different status indicators. See section 4.
In addition, the limit switches are visualized.

Main menu ➔ Status



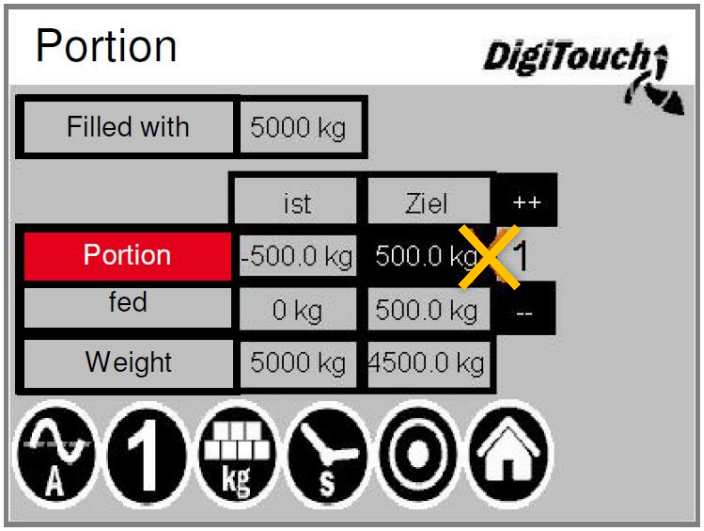
3.14.3 Manual operation

See section 3.13.2

4. Configuration

4.1 Symbol "kg" (portion)

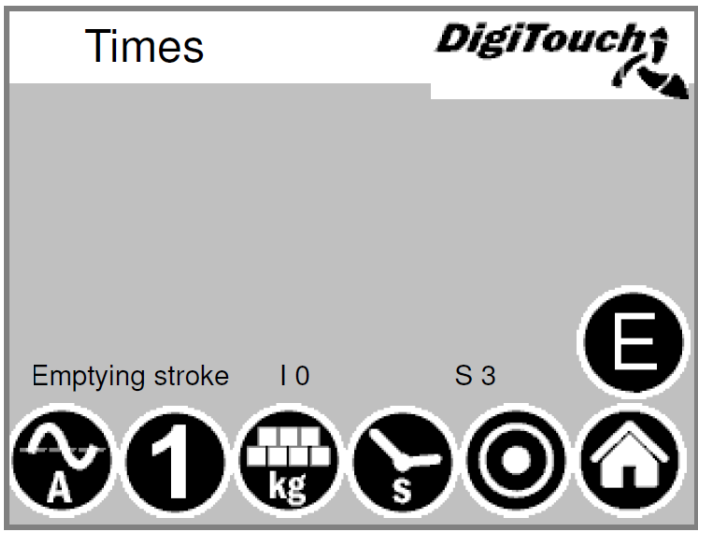
Here the portion is adjusted. (black box portion target).
With "**++**" and "**--**" the portion can be increased or reduced/left out for the next feeding.
Portion "is" = to reach the target weight with the feeding quantity.
Portion "target" = adjustet dosing quantity.
Feed "is" = quantity of the last feeding.
Feed "target" = quantity, that should be reached with the next feeding.
Weight "is" = gross weight less feeding quantity.
Weight "target" = gross weight after the next feeding.
With this new procedure the containers will be empty "on the dot".



ATTENTION! The portion can only be adjusted in filling mode and operating mode "Off"!

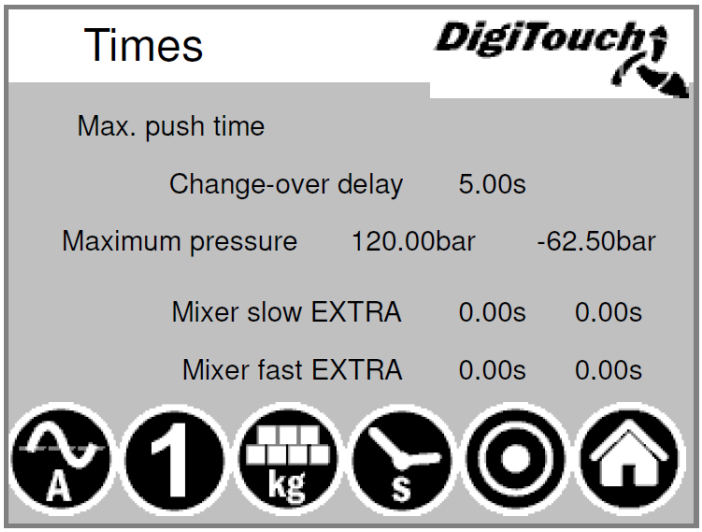
4.2 Symbol "s" (timer)

The individual timers are displayed here. By pressing the "E" button additional timers are displayed. See section **Fehler! Verweisquelle konnte nicht gefunden werden.**.



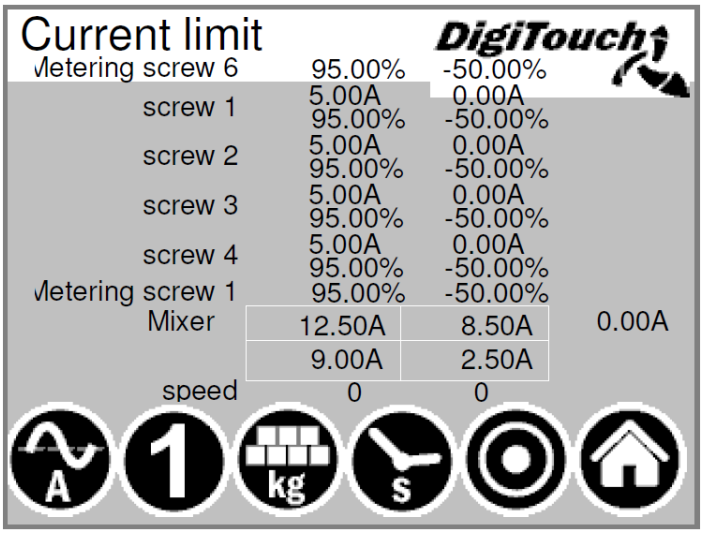
4.3 Times "E"

The special times are displayed here. Variable depending on the equipment of the system.



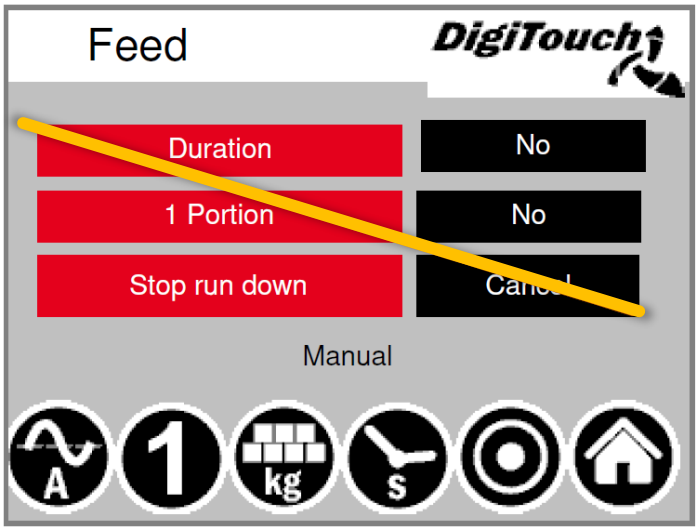
4.4 Symbol "A" (power display)

The power indicator remains blank when in idle mode. A value indicating power as well as the limit value is only displayed when a particular motor is running. If a limit value is exceeded, the conveyer from the previous stage is stopped in order to reduce material supply. As a result, blockages and overloads are reduced and prevented! See section **Fehler! Verweisquelle konnte nicht gefunden werden.**.



4.5 Symbol "1" (feed)

The top button puts the equipment in continuous mode. Feeding then runs continuously until the button is pressed again. Button 2 allows an individual portion to be introduced. Pressing the button again stops the dosing, even when the portion has not been used. If you wish to interrupt the process in this phase, button 3 can be used for this. These settings can only be made in "Automatic" operating mode.



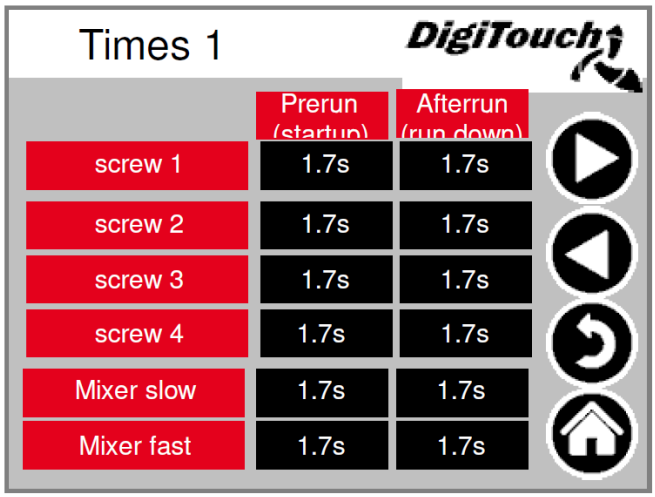
5. Configure parameter/s

Setting the operating parameters with a higher-level control such as PROFIBUS, PROFINET etc. have to set the times like this be because it is the given time from the higher-level control for a dosing cycle do not exceed.

5.1 Times - 1

Pre- and afterrun times.

Main menu ➔ Settings ➔ Parameter

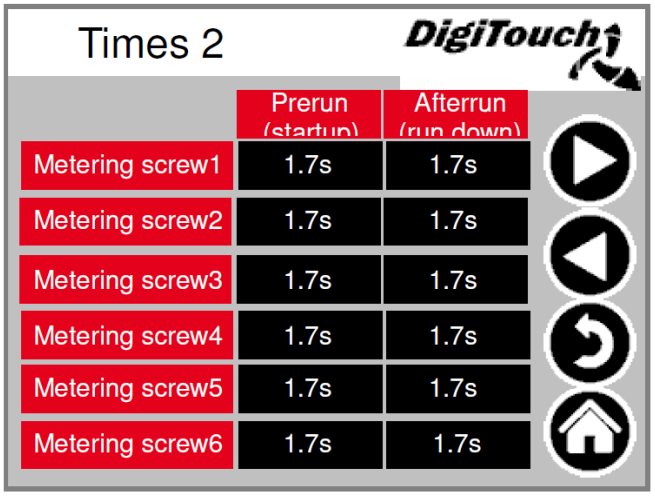


ATTENTION! The menu conforms to the equipment configuration.
Here the lead time or Follow-up time of each Conveyor screws set.

5.2 Times - 2

Pre- and afterrun times.

Main menu ➔ Settings ➔ Parameter ➔ 1x ▷

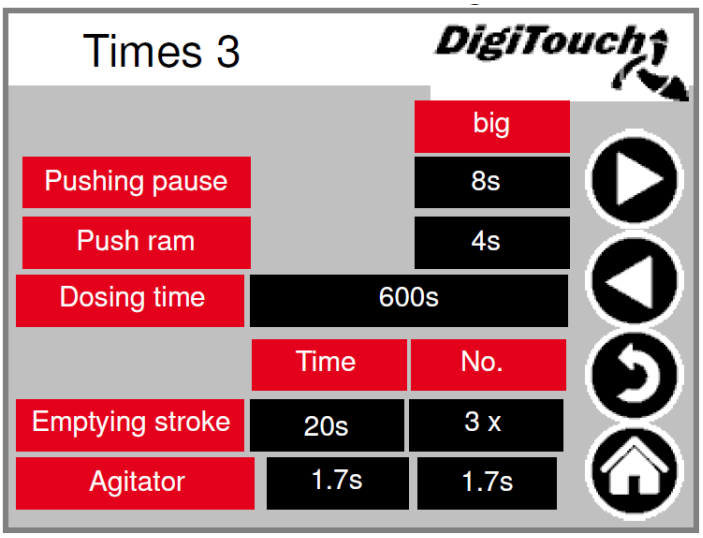


ATTENTION! The menu conforms to the equipment configuration.

5.3 Times - 3

Cycle time of the sliding floor. Must be adapted to the material.
Maximum dosing time ➔ Switch- off due to exceedance.
Emptying stroke ➔ when the end position is reached the wall retracts repeatedly in order to reduce the residue quantities.

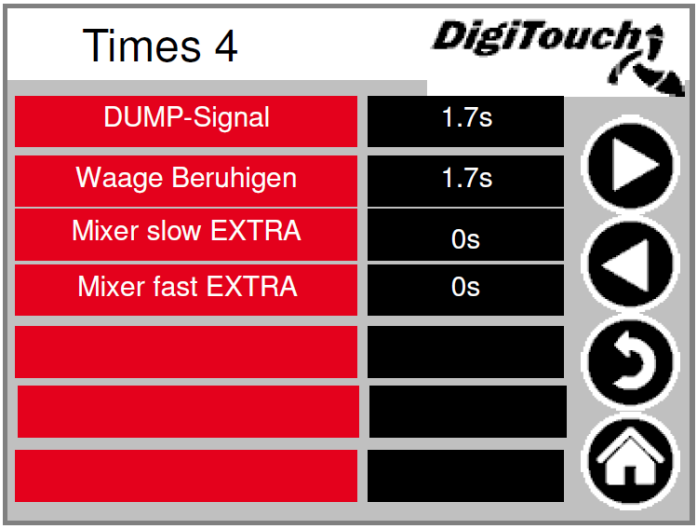
Main menu ➔ Settings ➔ Parameter ➔ 2x ▷



5.4 Times - 4

DUMP signal = ready message Libra.
reassurance = reassurance before completion report.
Additional idle time for Multimix or add-on Rondomat, if by downstream units (Qz etc.) the conveyor screws are switched off in batch, but continue to mix the Multimix or add-on Rondomat to shred the material or to fill the exit.

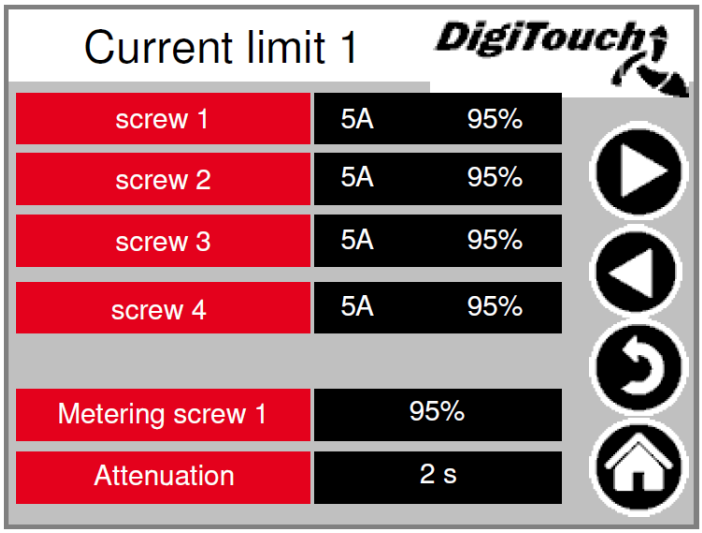
Main menu ➔ Settings ➔ Parameter ➔ 3x ▷



5.5 Current limit - 1

Power limit in A or in % depending on equipment.
Mixer activation in A and speed when equipped with FC.

Main menu ➔ Settings ➔ Parameter ➔ 4x ▷

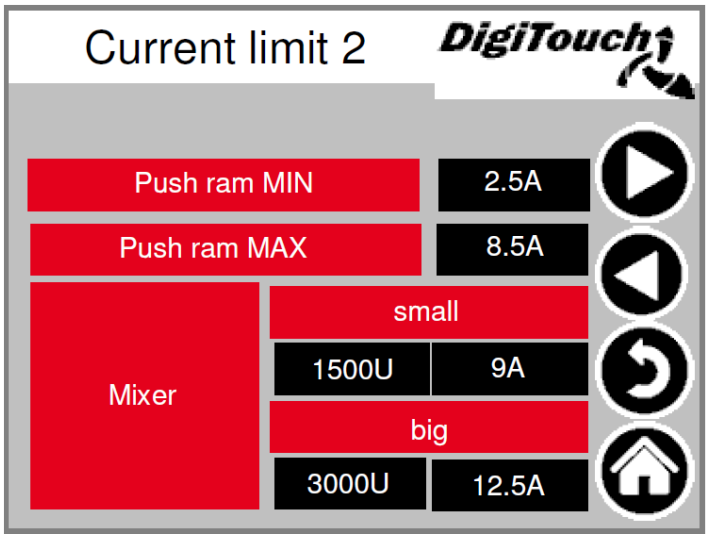


5.6 Current limit - 2

Only if "Push ram MAX" gets undershot by the extension Rondomat/Micromix and the mixer in the big rotational speed is then the Sliding floor pushes. If "small" "A" gets undershot the mixer switches to the big rotational speed. If "big" "A" gets overshot the mixer switches to the small rotational speed.
Set current depending on the module.

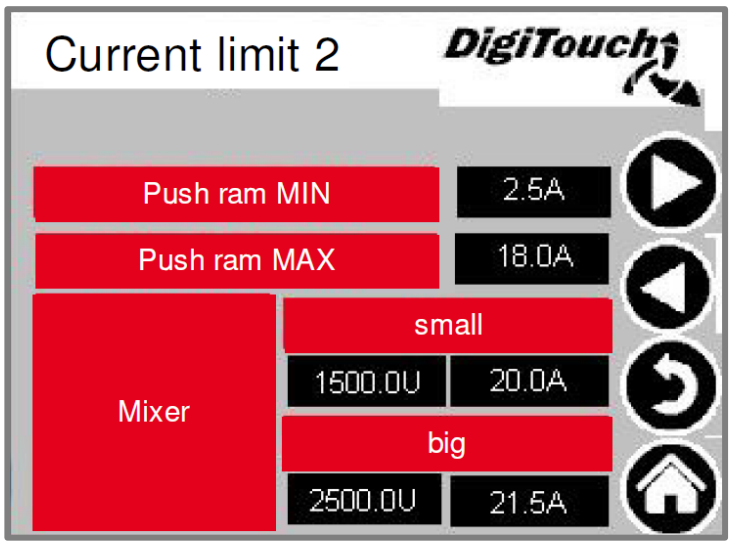
5.6.1 Rondomat

Main menu ➔ Settings ➔ Parameter ➔ 5x ▷



5.6.2 Multimix

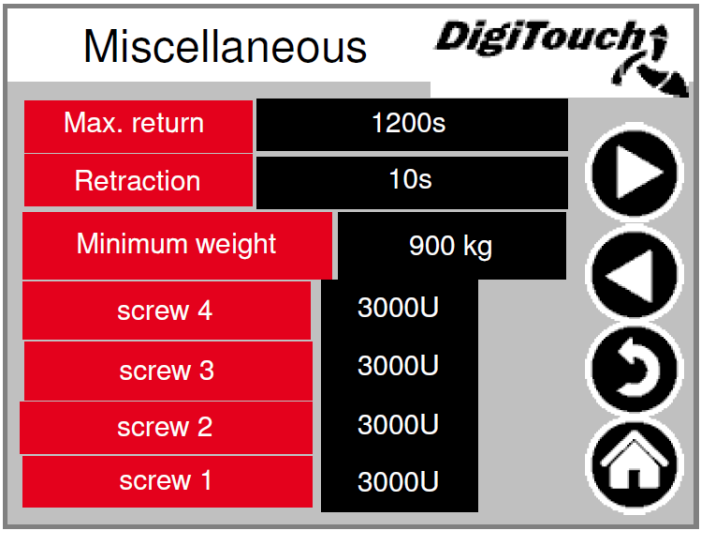
Main menu ➔ Settings ➔ Parameter ➔ 5x ▷



5.7 Miscellaneous

Max. Rueckf.: Maximum time for the valve return.
Retraction: Time for retraction (precompression).
Minimum weight, below which the equipment switches off. The system unlocks with double minimum weight. Screw conveyors only appear if the conveyor screws in the equipment selected with FU. Here it is possible to adjust the fixed speed of the individual screws.

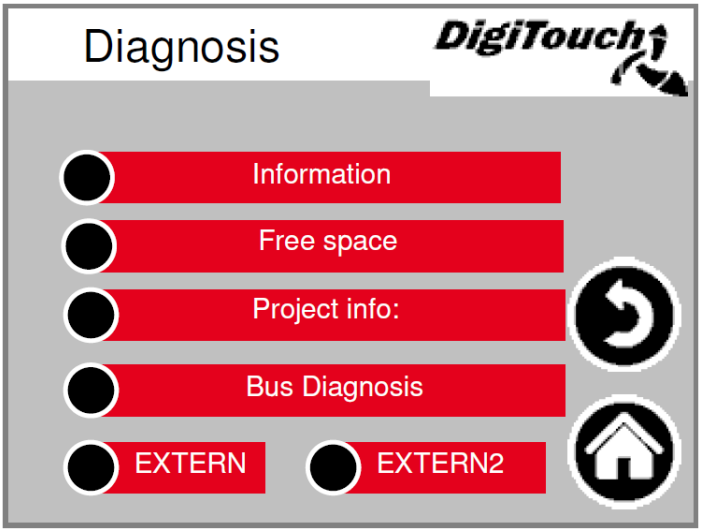
Main menu ➔ Settings ➔ Parameter ➔ 6x ▷



6. Diagnosis

Menu overview for diagnosis!

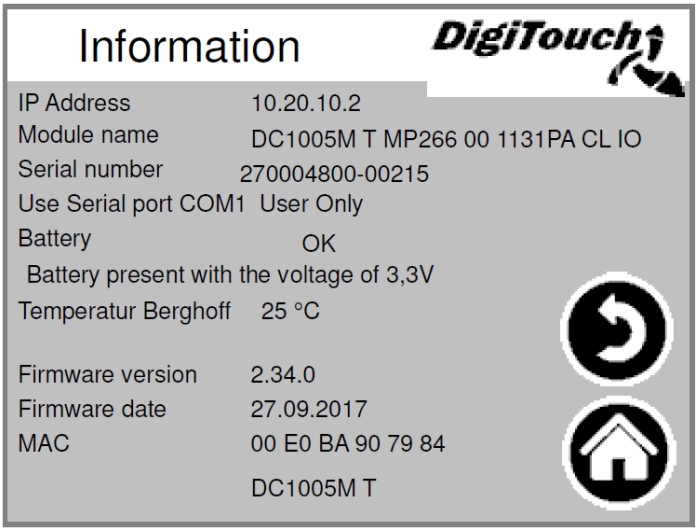
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis



6.1 Information

Here are displayed the information of SPS itself. At SerialPortCOM1Use has to be "User Only"
This page should be checked monthly if battery shows "OK". If it is not "OK" the battery has to be replaced according to *biogas control manual part C - DC1000*. For EC1000 no battery replacement is possible.

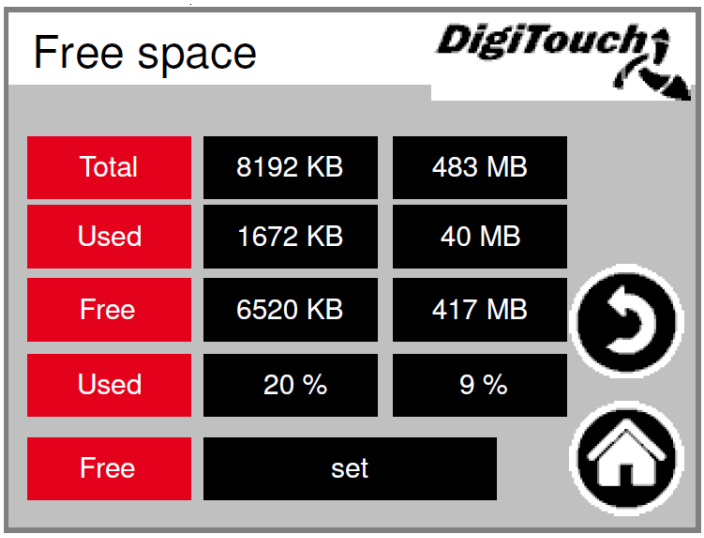
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Information



6.2 Free space

Amount of free memory. Button to delete the alarm history and to free memory.
Internal Memory = left column
External Memory = right column
(The external memory can only be used if there is a SD-card integrated and activated.)

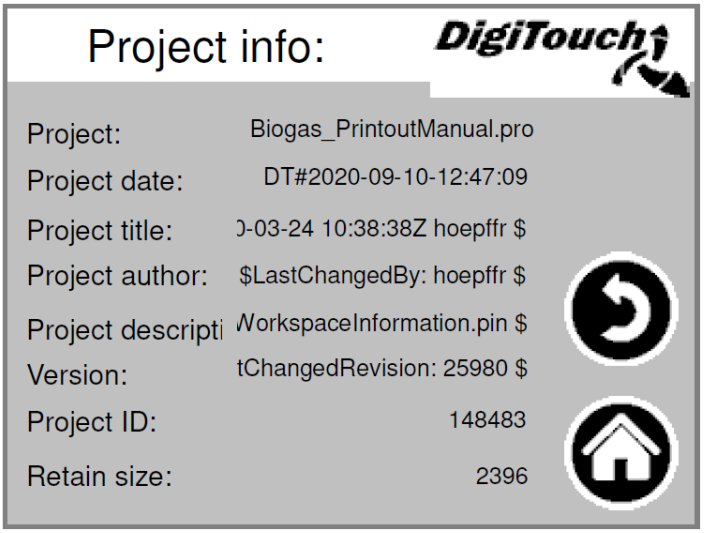
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Free space



6.3 Project info

Project information, such as type, Program Version date etc.
This information are very important for an update, also for the replacement of the SPS or of the touch panels.

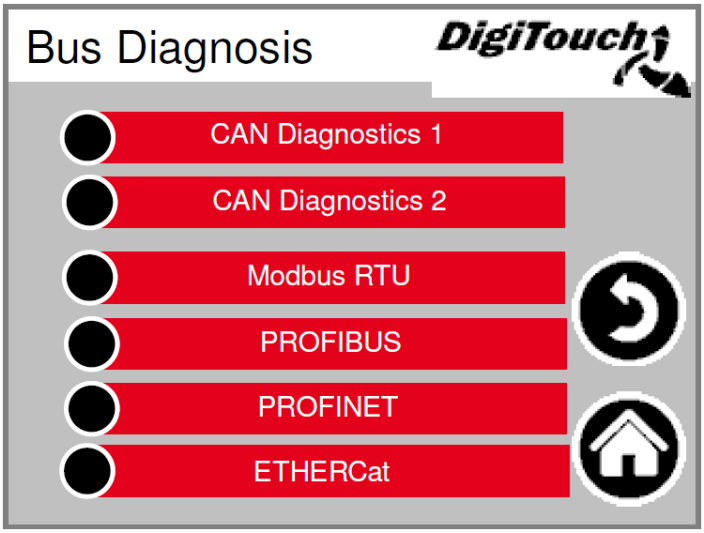
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Project info



6.4 Bus Diagnosis

Diagnosis of the different bus systems.

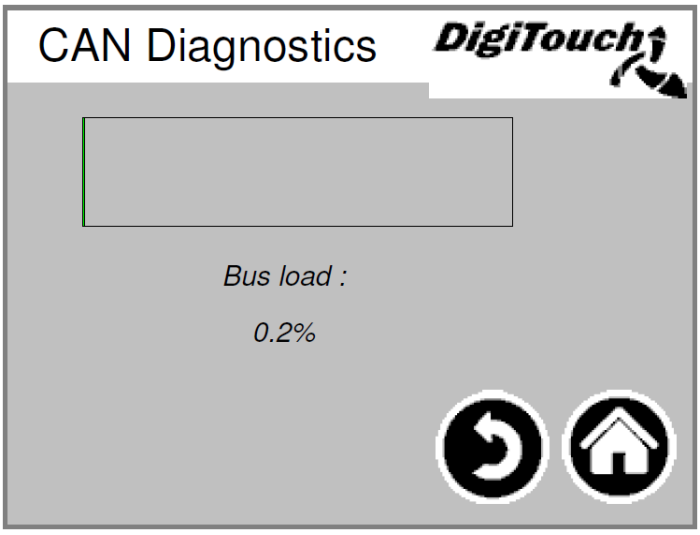
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis



6.4.1 CAN bus load

Bus load on the CAN bus. If the bus load shows over 40% for a longer period, then at least one participant has constant errors.

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ CAN Diagnostics 1

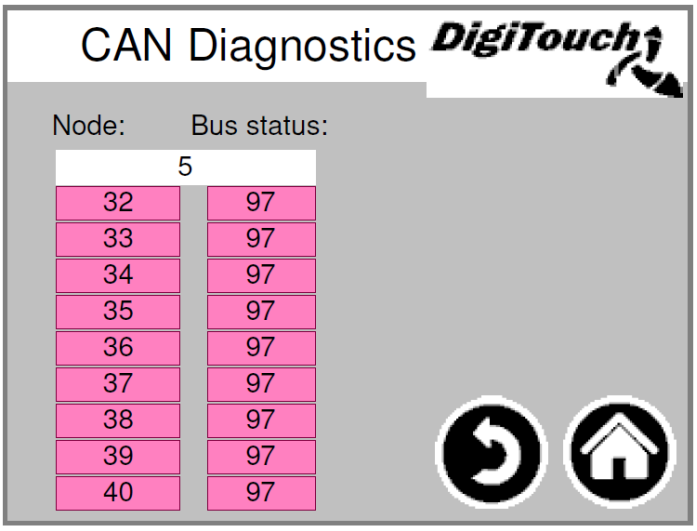


6.4.2 CAN Diagnostics

The different CAN devices:

top down:
The top bar shows the status of the master.
The boxes at the bottom are the slaves and their status.

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ CAN Diagnostics 2



Node	Beschreibung
Node 32	Can 32 module (Phoenix-Lenze)
Node 33	Mixer FU
Node 34	Screw 1
Node 35	Screw 2
Node 36	Screw 3
Node 37	Screw 4
Node 38	2. Lenze module
CAN master analog output FU1 … FU4	

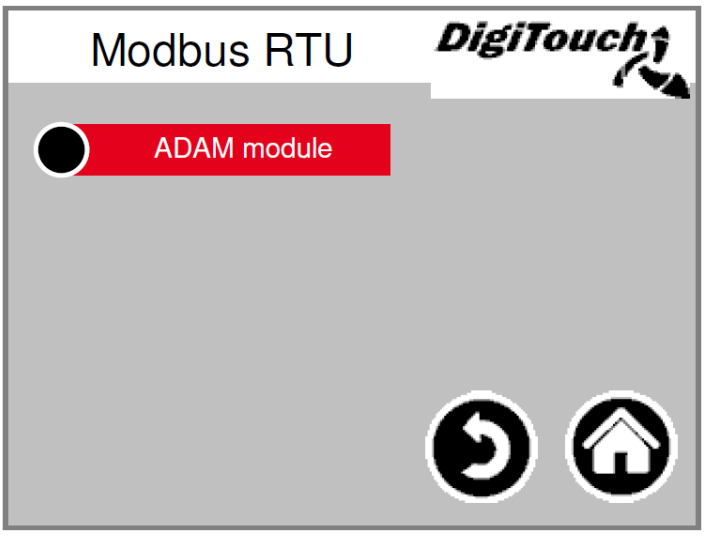
The status in detail:

Status	Description
MASTER	
0/1/2	They run from the master automatically and in the first cycles following an SPS start.
3	Status 3 of the master will be retained for some time.
5	Status 5 is the normal operating mode for the master.
SLAVE	
-1	The slave is reset by the NMT message [reset node] and changes independently into status 1.
1	The slave changes after a maximum time of 2 seconds, or immediately after receiving its boot-up message into status 2.
2	The slave automatically changes into status 3 after a delay of 0.5 seconds. This time confirms that many open CAN devices are not immediately ready to receive their configuration SDOs, after they have sent their boot-up messages.
3	In status 3 the slave is configured. Slaves where a problem arises during the configuration phase, stay in status 3 or change directly into a failure state following the configuration phase (status > 5).
5	Status 5 is the slaves normal operating mode.
97	A node changes into status 97 when it is operational (Operational device in the CAN configuration) and not on the SDO request, after the object has responded with 0x1000.
98	Node changes to Status 98, when the device type (object 0x1000) does not correspond to the configuration type.

6.4.3 ModbusRTU

Diagnosis page for programmer!

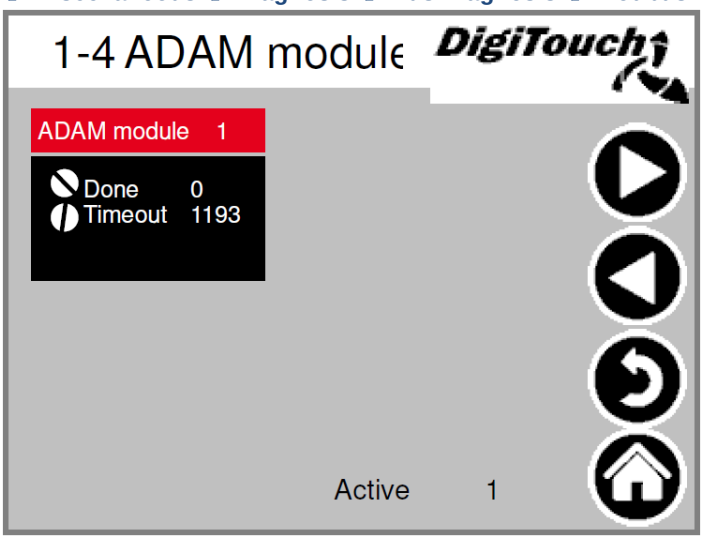
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ModbusRTU



ADAM module

Diagnosis page for programmer!

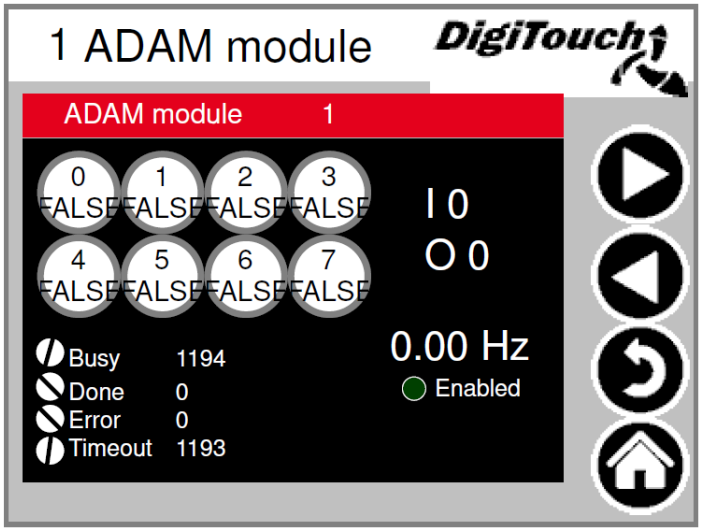
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ModbusRTU ➔ ADAM module



ADAM module 1

Diagnosis page for programmer!

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ModbusRTU ➔ ADAM module ➔ ADAM module 1

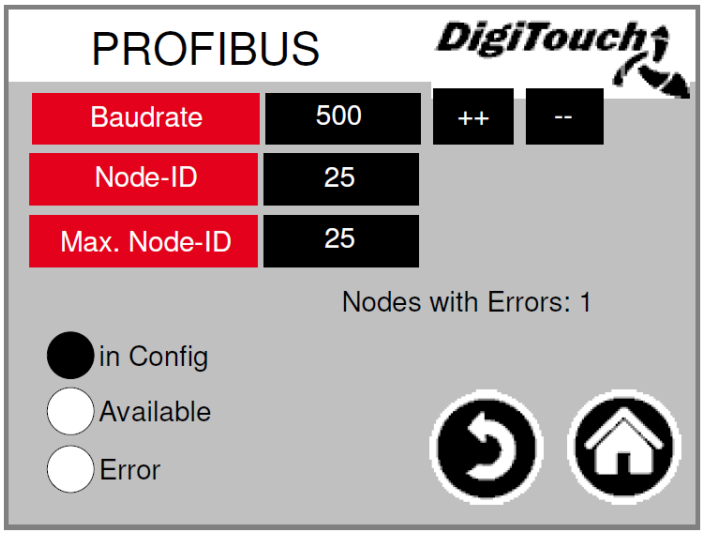


6.4.4 PROFIBUS_DC1005

Baud rate: Setting is defined by the master, can be adjusted with "**++**" and "**--**" for master to slave communication.
Node-ID: Address of the feeding container is indicated by the customer.
Max. Node-ID: Highest Node-ID of the profibus network.
Nodes with Errors: Amount of the incorrect subscribers.

in Config = activated
Availiable = connected
Error = fault

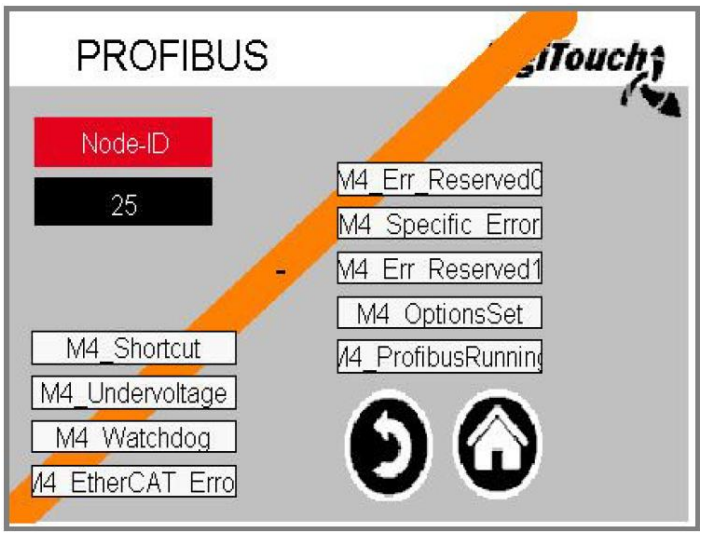
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ PROFIBUS



6.4.5 PROFIBUS_EC1000

Node-ID: Address of the feeding container.
There is a auto-baudrate for EC1000, for this the master must be started at first and then the slave.

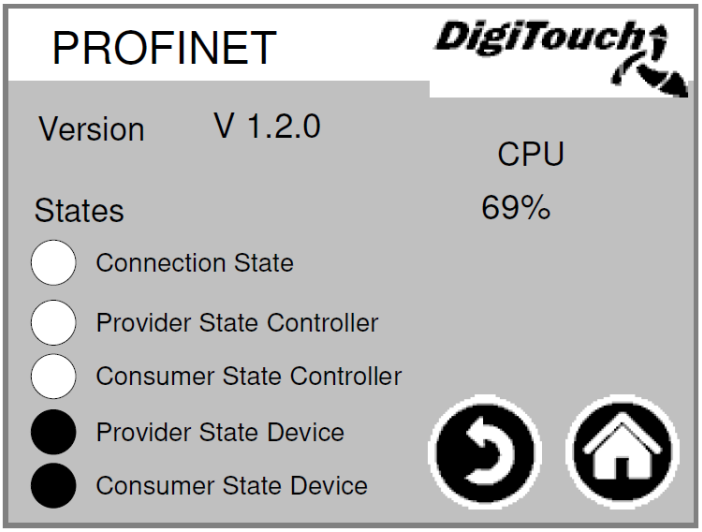
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ PROFIBUS



6.4.6 PROFINET

When it says version V0.0.0 Profinet is not available for this system or it is not installed.
The CPU usage should not be over 60% for a longer period. If this is the case the transmission speed of the busses have to be slow down. This can be done with the higher-level control. For example for Siemens S7 the update time has to be 8000 ms by the IO-cycle. The accepted update cycles have to be without IO-dates 15 and the watchdog time 120000 ms. Connection State, Provider State Controller and Consumer State Controller shows if there is a connection. Provider State Device and Consumer State Device shows if Profinet is active. DC_ProfinetDevice V1.1.0 has to be noted for commissioning.

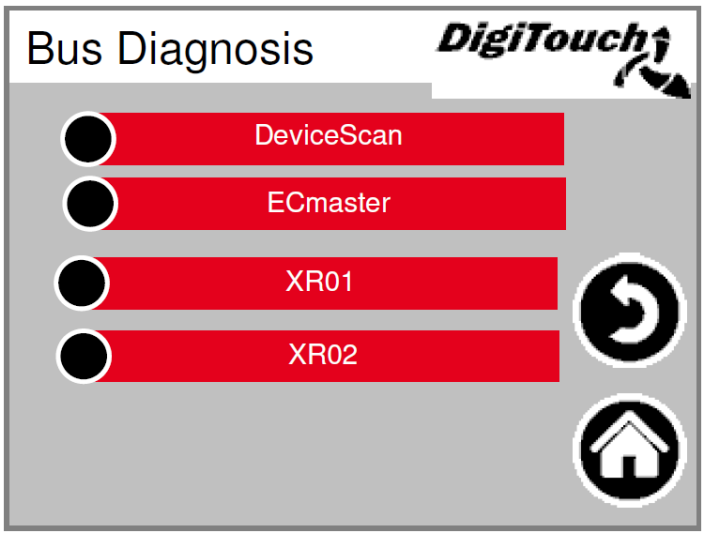
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ PROFINET



6.4.7 ETHERCat

Only EC1000 has this page DeviceScan is the bus scan which can be performed with the EasiCat.
Ecmaster is the EC1000 itself (SPS2).
XR01 is the first expansion card (SPS3).
XR02 is the second expansion card (SPS4).

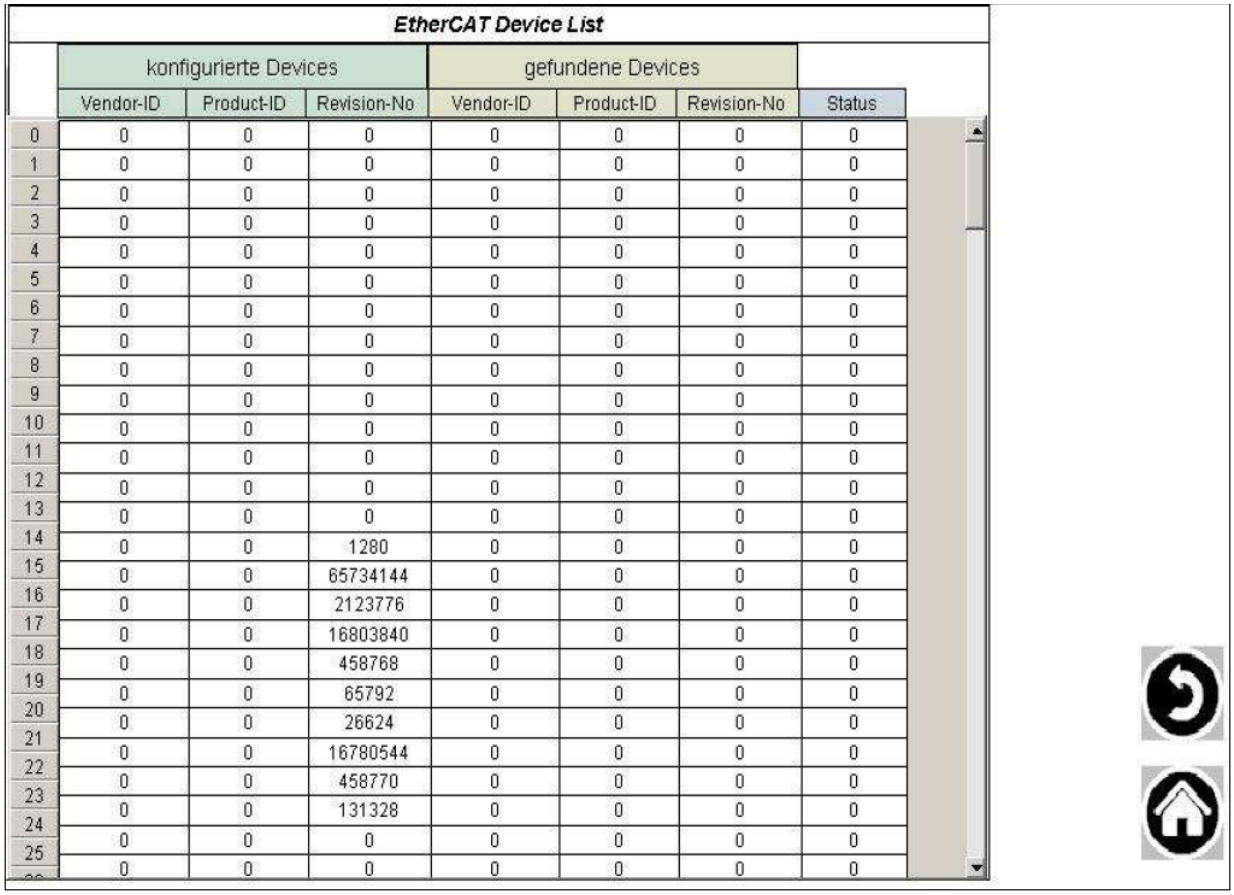
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ETHERCat



DeviceScan

On the left side are displayed the existing subscribers of the project and on the right side are displayed the detected subscribers after the scan. The difference to the bus scan from EasiCat is, that here are only shown the IDs and not the names.

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ETHERCat ➔ DeviceScan



EtherCAT Device List

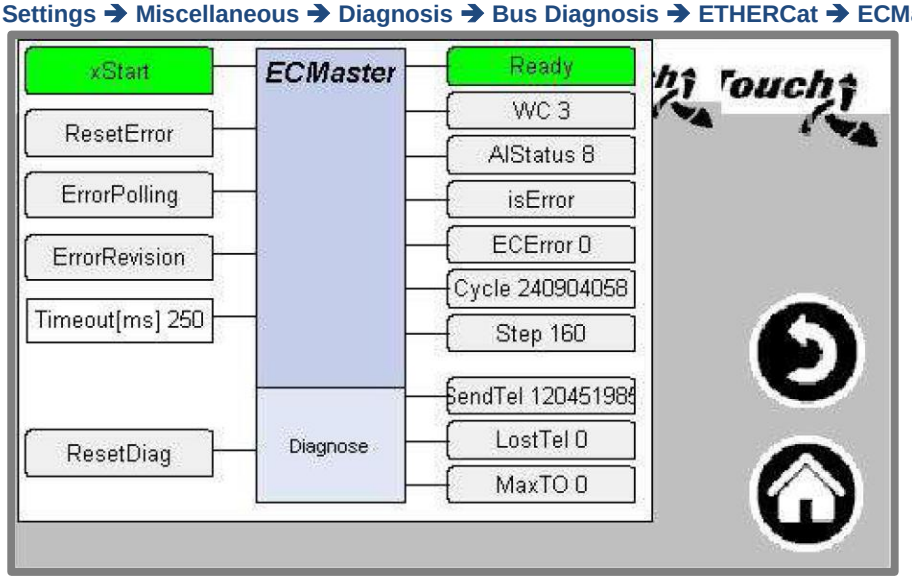
	konfigurierte Devices			gefundene Devices			
	Vendor-ID	Product-ID	Revision-No	Vendor-ID	Product-ID	Revision-No	Status
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0
14	0	0	1280	0	0	0	0
15	0	0	65734144	0	0	0	0
16	0	0	2123776	0	0	0	0
17	0	0	16803840	0	0	0	0
18	0	0	458768	0	0	0	0
19	0	0	65792	0	0	0	0
20	0	0	26624	0	0	0	0
21	0	0	16780544	0	0	0	0
22	0	0	458770	0	0	0	0
23	0	0	131328	0	0	0	0
24	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0

ECMaster

Shows the condition of the EtherCAT master. This is also indicated with one LED on the EC1000.

More detailed information on the displays of the LEDs:
Biogas control instruction part C - EC1000

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ETHERCat ➔ ECMaster

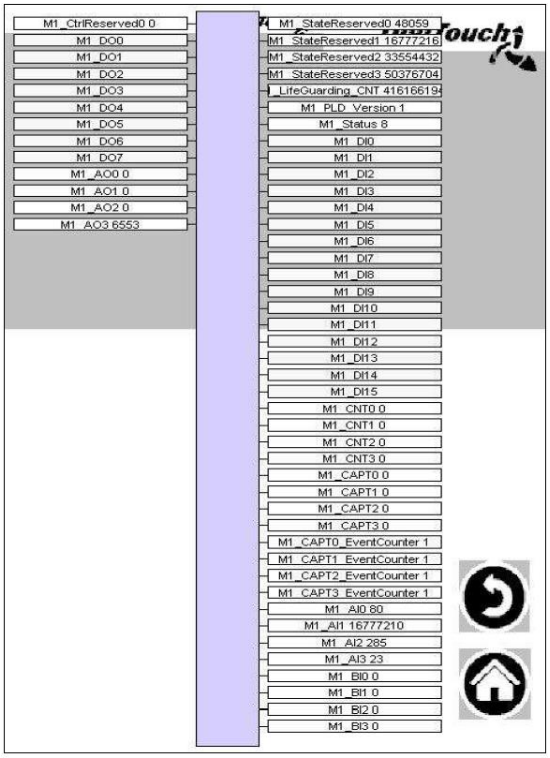


XR01

Here the digital input and output can be diagnosed. The analog outputs are also shown.

The LEDs on the XR01 are explained here:
Biogas control instruction part C - E IO XR module

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ETHERCat ➔ XR01

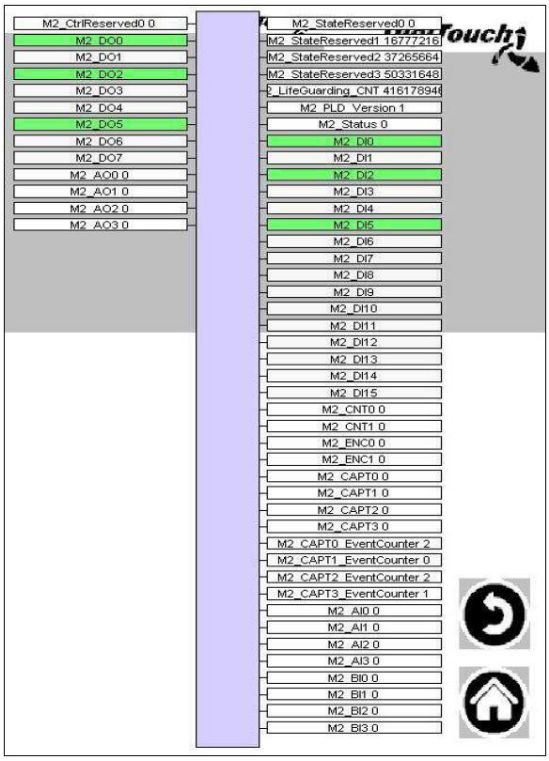


XR02

Here the digital input and output can be diagnosed. The analog outputs are also shown.

The LEDs on the XR02 are explained here:
Biogas control instruction part C - E IO XR module

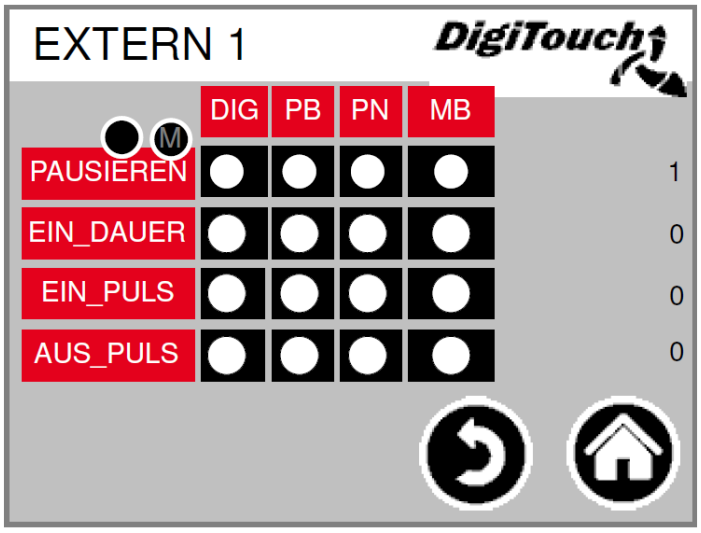
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ ETHERCat ➔ XR02



6.5 EXTERN 1

DIG = digital input
PB = Profibus
PN = Profinet
MB = Modbus
! = Boolean operator is shown, if pause negate is selected in the external equipment.
M = Flag, pause signal is extended.
A filled in circle means, that it is selected.
The numbers on the right side shown how often pause, On_term, On_pulse and Off_pulse were strucked.

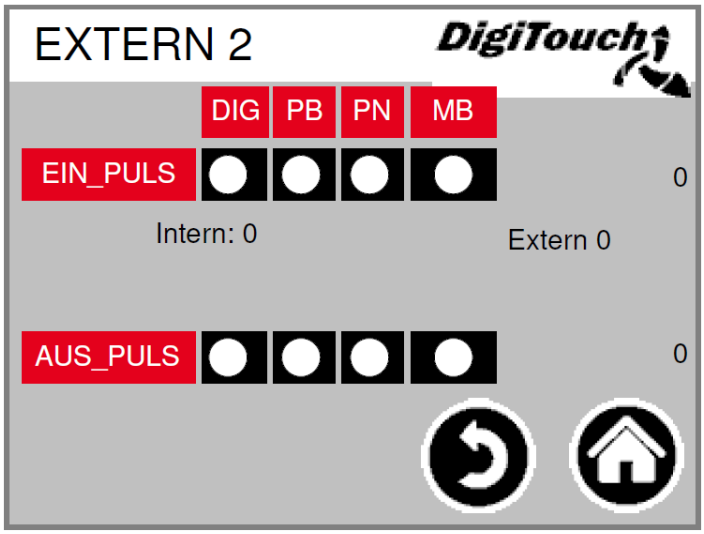
Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ EXTERN 1



6.6 EXTERN 2

DIG = digital input
PB = Profibus
PN = Profinet
MB = Modbus
If On-pulse Internal activated pulses are counted from the internal time switch.
If it is external the pulses from external sources are counted.

Main menu ➔ Settings ➔ Miscellaneous ➔ Diagnosis ➔ Bus Diagnosis ➔ EXTERN 2



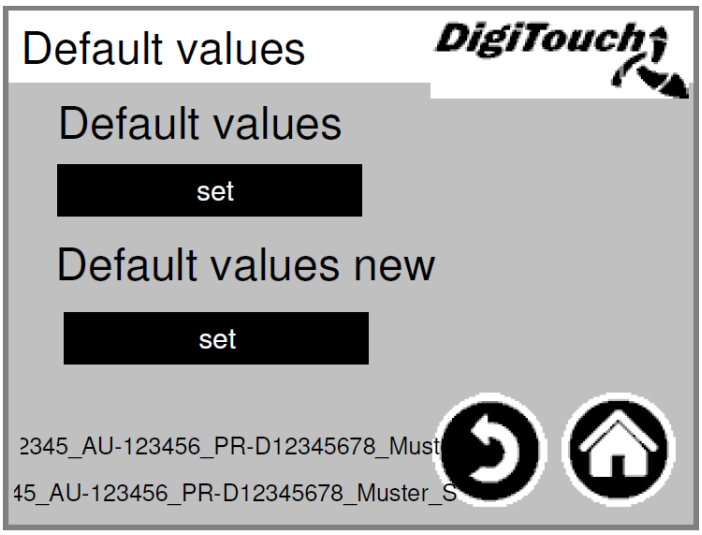
7. More settings

7.1 Set default values

Default values: Load the last default values.
Default values new: Here the default values can be newly saved.

This is only possible for service technicians!

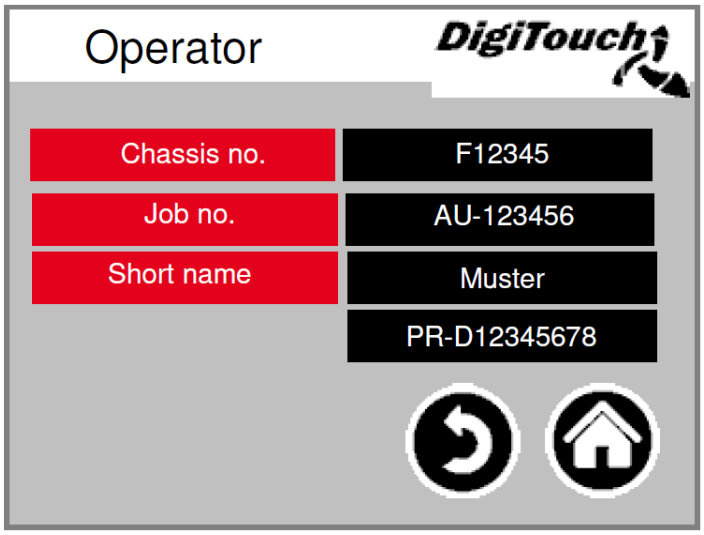
Main menu ➔ Settings ➔ Miscellaneous ➔ Default values



7.2 Operator

Shown here is all the important information of the machine which are necessary for spare parts and service requests.

Main menu ➔ Settings ➔ Miscellaneous ➔ Operator

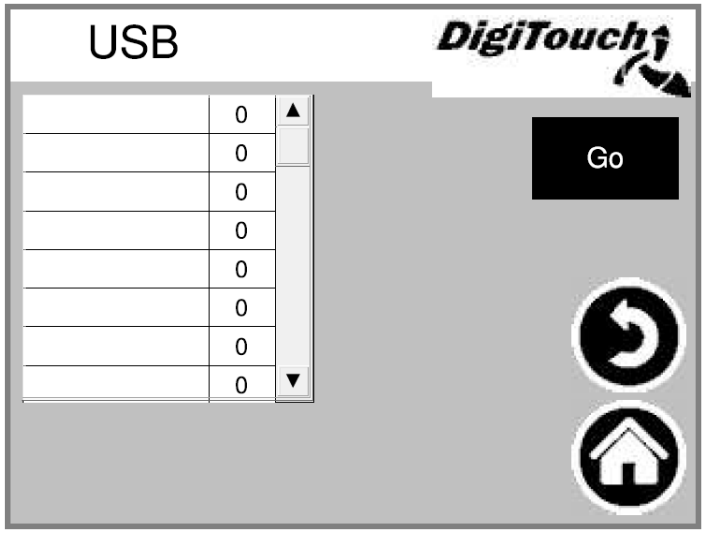


7.3 USB

This mask serves to read the feed material log books. Alternatively this data can be retrieved using an Ethernet connection. You have to press "Go" several times until the message concerning the safe removal of the USB stick is displayed.

ATTENTION! In some cases the USB stick is not recognized, e.g. if it has an incorrect communication protocol. Then try again with a different USB stick.

Main menu ➔ Settings ➔ Miscellaneous ➔ USB

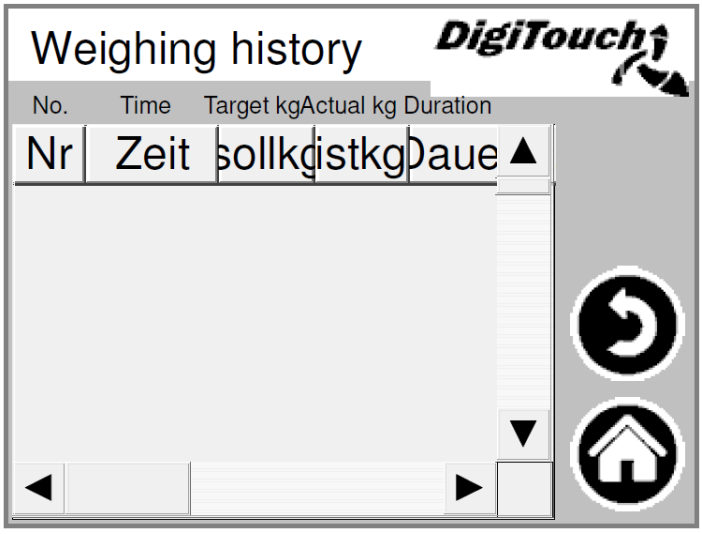


7.4 Weighing history

Here actual and target quantities, feeding time and duration are recorded.
How to reset the history scale is explained in the biogas control manual part C.

If a software update performed the history scale is deleted!

Main menu ➔ Settings ➔ Miscellaneous ➔ Weighing history

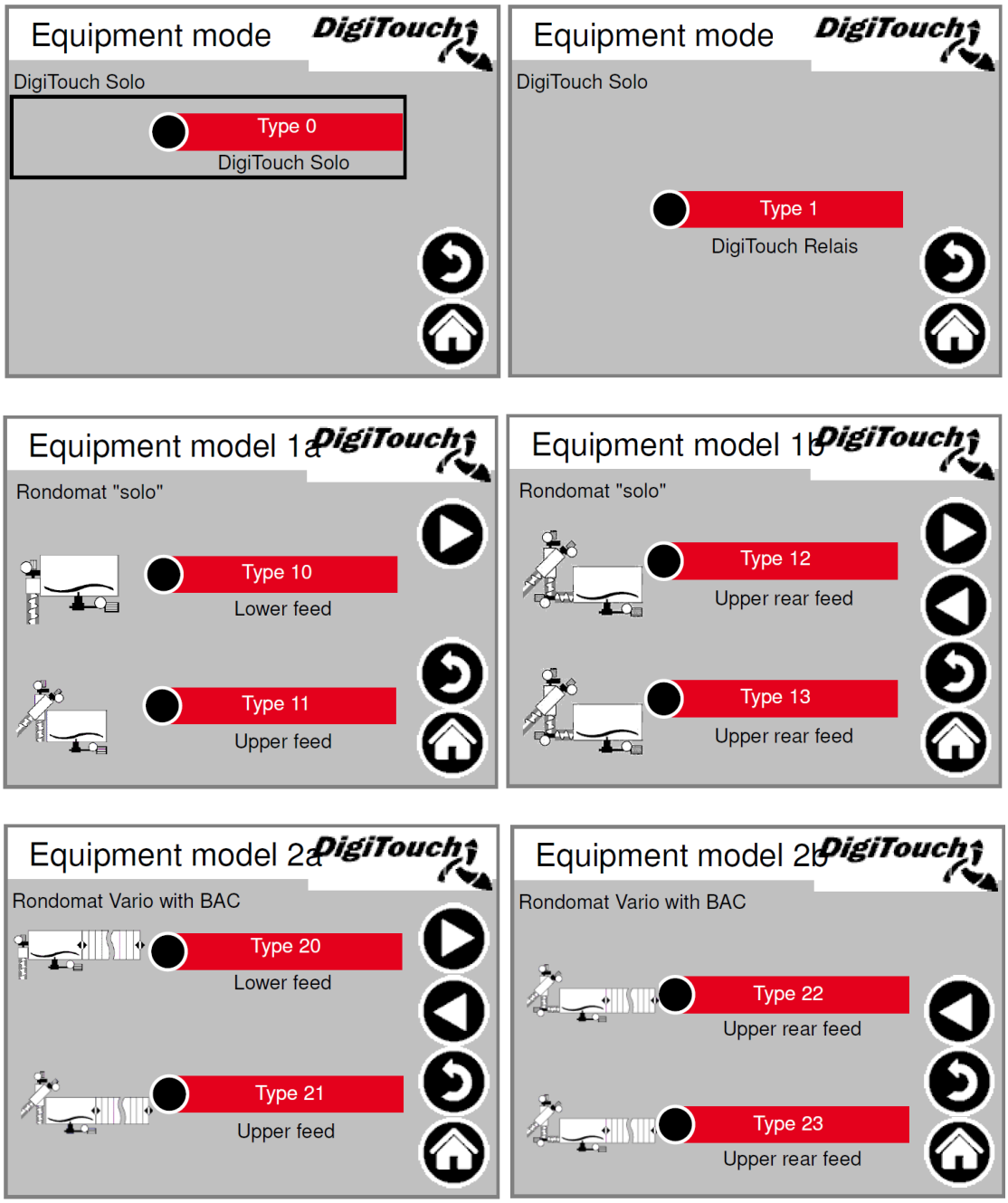


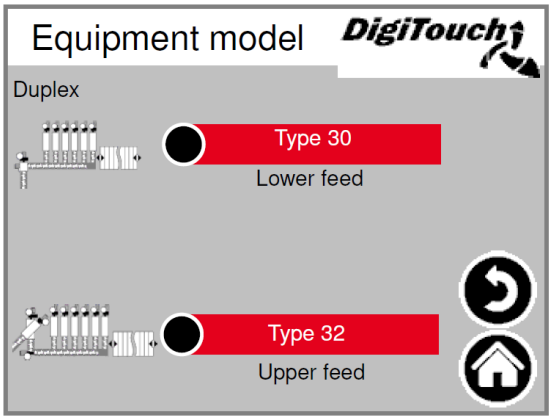
8. Basic settings

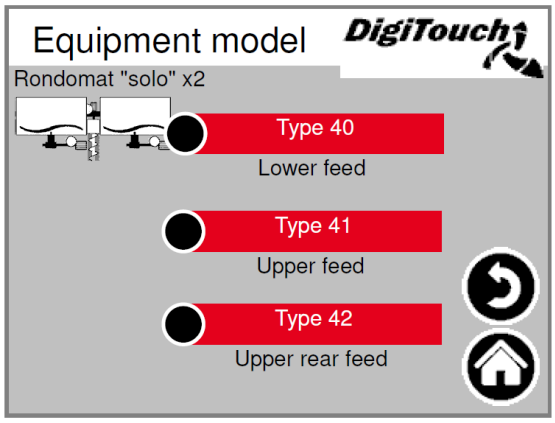
8.1 Setup menu

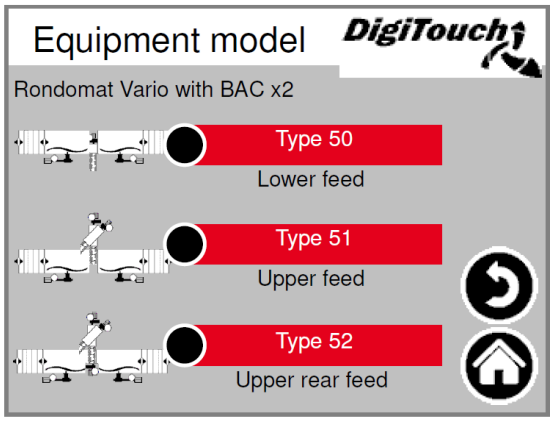
The menus (system type) shown here are for the setup mode and not intended for the user. They are protected with a code. Here the respective system type that is fitting to the machine can be selected. Is different depending on project status.

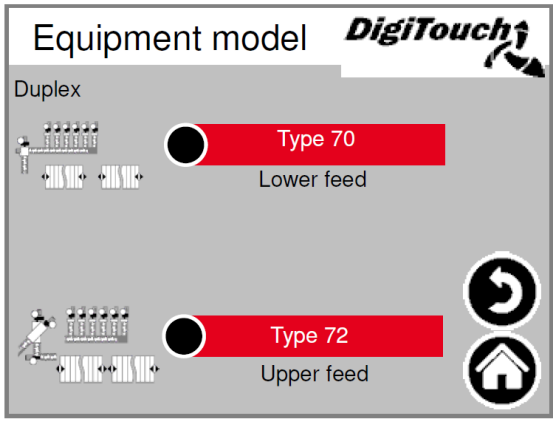
Main menu ➔ Basic settings ➔ Equipment model

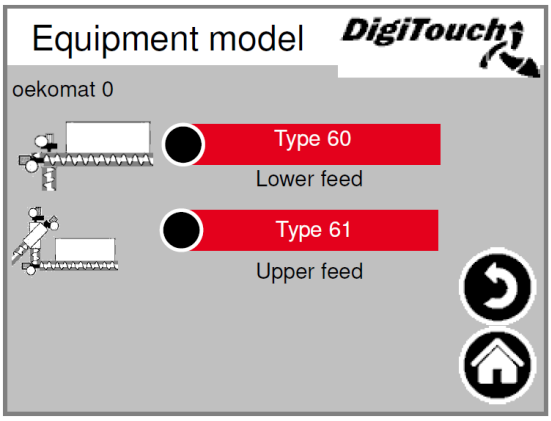


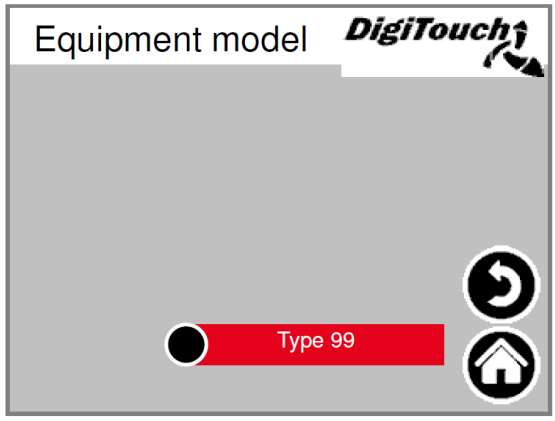

Equipment model
DigiTouch
Duplex
Type 30
Lower feed
Type 32
Upper feed


Equipment model
DigiTouch
Rondomat "solo" x2
Type 40
Lower feed
Type 41
Upper feed
Type 42
Upper rear feed


Equipment model
DigiTouch
Rondomat Vario with BAC x2
Type 50
Lower feed
Type 51
Upper feed
Type 52
Upper rear feed


Equipment model
DigiTouch
Duplex
Type 70
Lower feed
Type 72
Upper feed


Equipment model
DigiTouch
oekomat 0
Type 60
Lower feed
Type 61
Upper feed

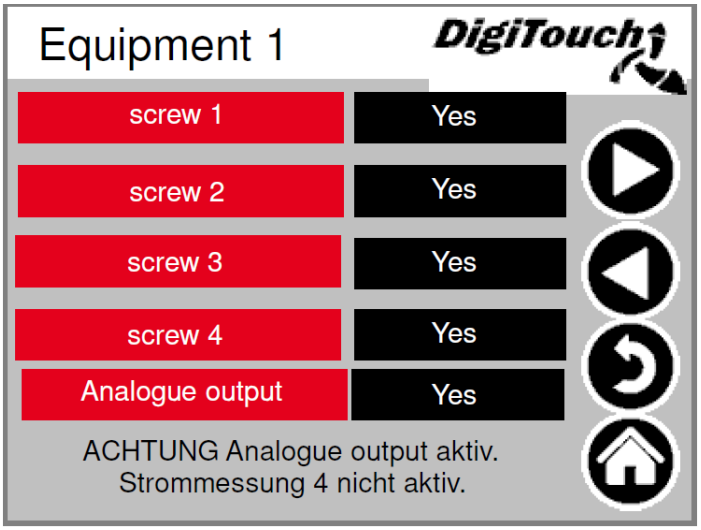

Equipment model
DigiTouch
Type 99

8.2 Equipment - 1

The menu (equipment) displayed here are for the setup and not for the operator.
They are protected with a code. The respective screws of the machine can be selected here.
Attention: If there is a frequency converter for one screw, "No" has to be selected.

ATTENTION!
If analogue output is activated for EC1000, the current measurement of the screw does not work and has to be disconnected and the screw has to be deactivated.

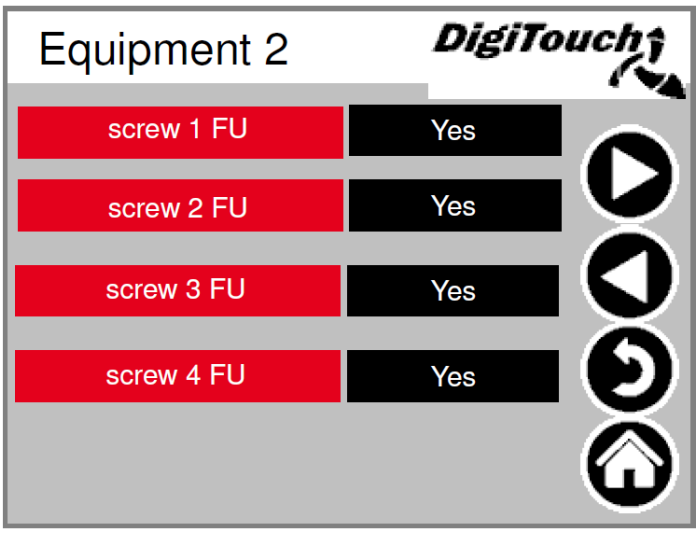
Main menu ➔ Basic settings ➔ Equipment



8.3 Equipment - 2

Determine whether the screws be operated with or without FU. If one screw is operated without FU, here the respective screw has to be set "No".

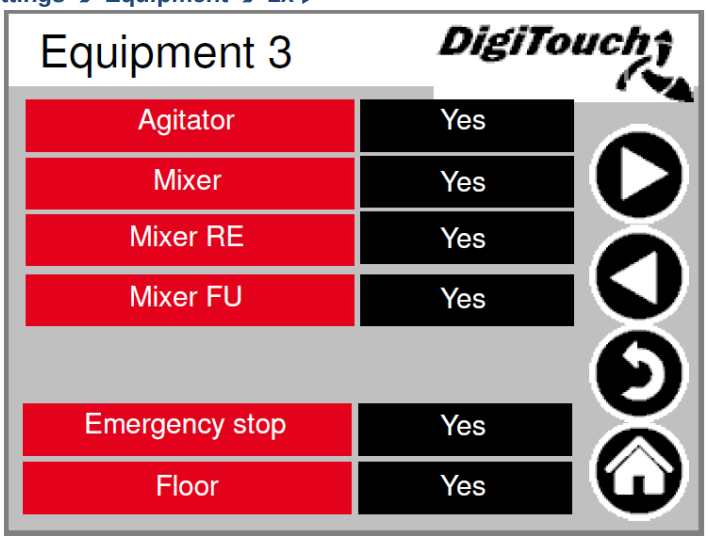
Main menu ➔ Basic settings ➔ Equipment ➔ 1x ▷



8.4 Equipment - 3

Agitator "Yes": When controlling the agitator, only then a signal is outputted to an external
Mixer "Yes": If mixer controlled contactor. Mixer RE is only needed if there are 2 mixers and they should run by turns (left/right mixer).
Mixer FU "Yes": If with FU
Emergency stop: An alarm is only given if "Yes" is selected, only for digitouch solo if "No".
Floor: Only with "Yes" signal on the hydraulic unit.

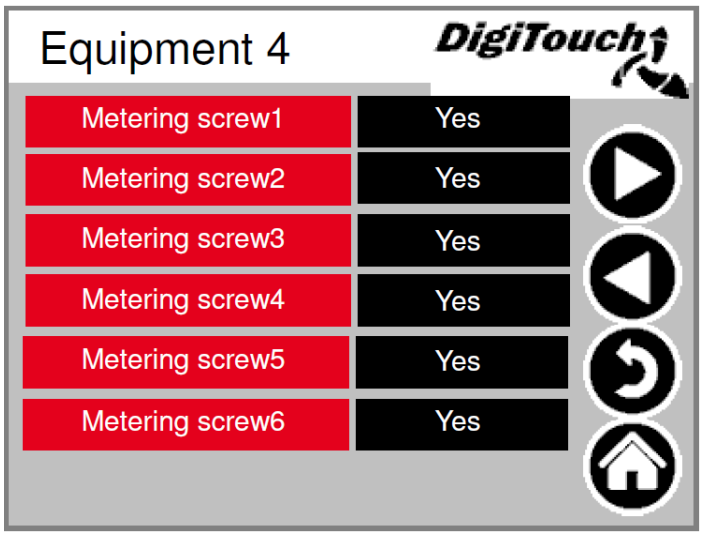
Main menu ➔ Basic settings ➔ Equipment ➔ 2x ▷



8.5 Equipment - 4

If it is a duplex system here the respective metering screws can be activated. In a special case it is also for other system types possible to misuse 1 to 4 metering screws as so-called special contactors. The amount of the metering screws depend on the system types.

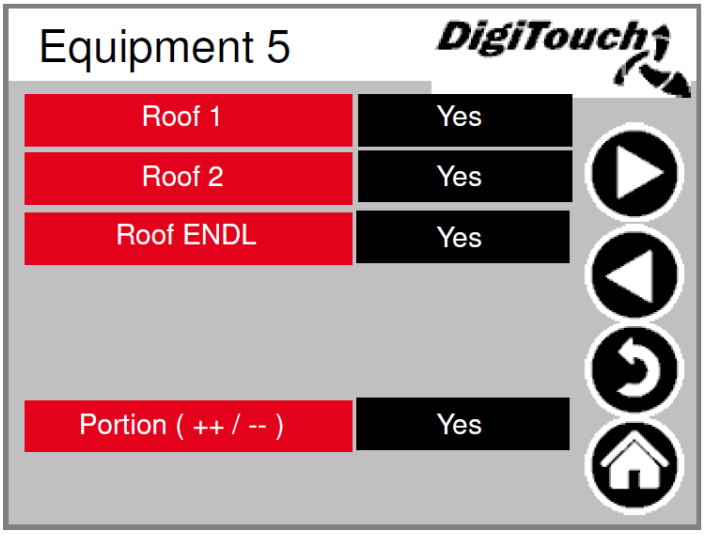
Main menu ➔ Basic settings ➔ Equipment ➔ 3x ▷



8.6 Equipment - 5

Here it is possible to set if the feeding container has a roof, with or without end position sensor.
Portion (++/--): With this field it is activated, that the customer has the possibility, dosing an additional portion or omit a portion during the automatic mode.

Main menu ➔ Basic settings ➔ Equipment ➔ 4x ▷

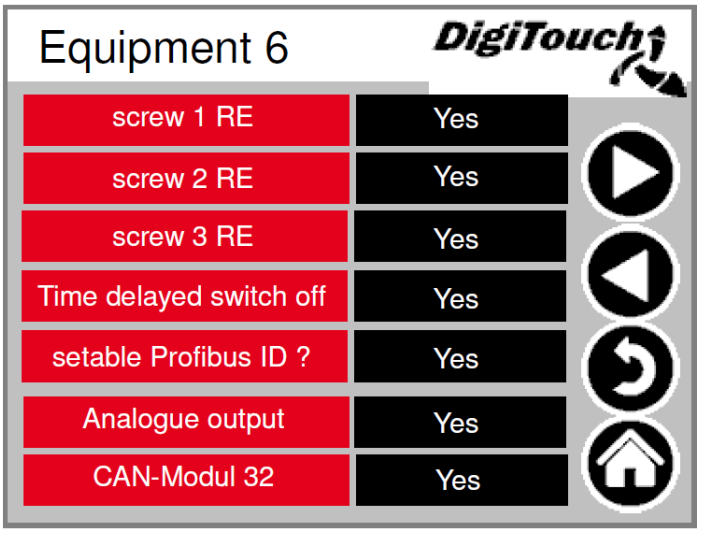


8.7 Equipment - 6

The screws RE 1-3 are provided for dosing with one 2 fermenters.
Switch off after time: activates the maximum dosing time.
seatable Profibus ID ?: only with Profibus connection, has to be activated here.
Analog output: is the 4-20mA output of the scale to the customer.

ATTENTION! If it is activated the current measurement of the contactor does not work for screw 4 and has to be disconnected and the screw 4 has to be deactivated and for DC1000 without black plugs has to be activated the Can module 32.

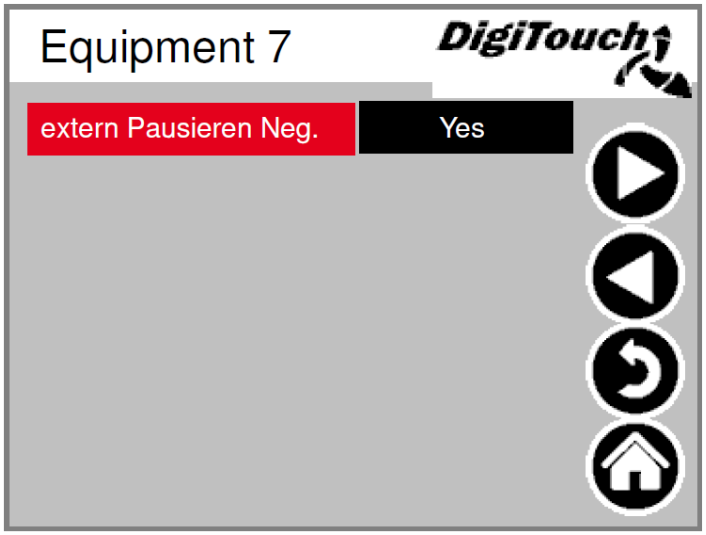
Main menu ➔ Basic settings ➔ Equipment ➔ 5x ▷



8.8 Equipment - 7

Here the external pause signal can be negated, that means that the signals applied permanent and only decrease if the switches.

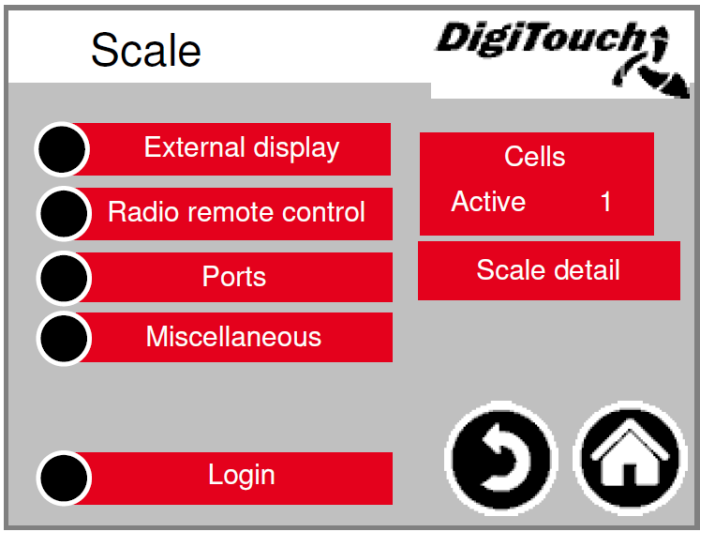
Main menu ➔ Basic settings ➔ Equipment ➔ 6x ▷



8.9 Scale

The overview menu enables access to all weighing scale setting and diagnosis functions.

Main menu ➔ Basic settings ➔ Scale

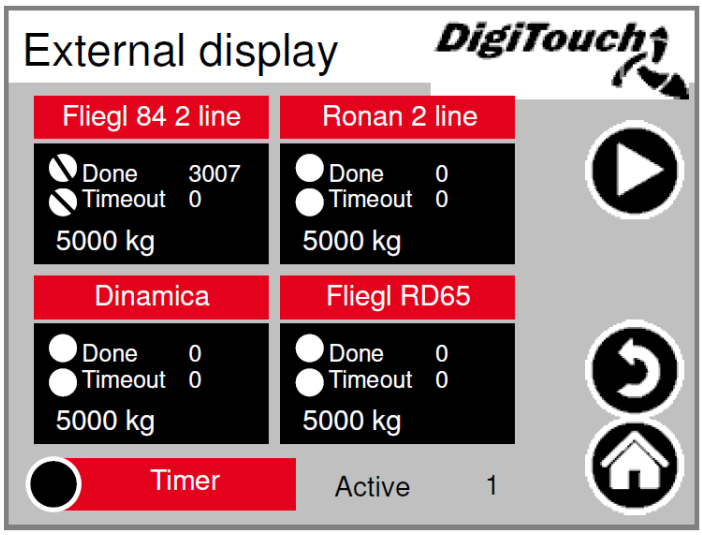


8.9.1 External display 1 - 4

Activating an external display.
Active: Shows how many displays are active, at maximum 1 display can be active. If accidentally more displays are activated, *all displays* have to be deactivated. If **active 0** then the correct display should be selected. After that wait *15 seconds*, press the house and after waiting again *15 seconds* restart.

ATTENTION! Many settings require a new start for them to take effect.

Main menu ➔ Basic settings ➔ Scale ➔ External display

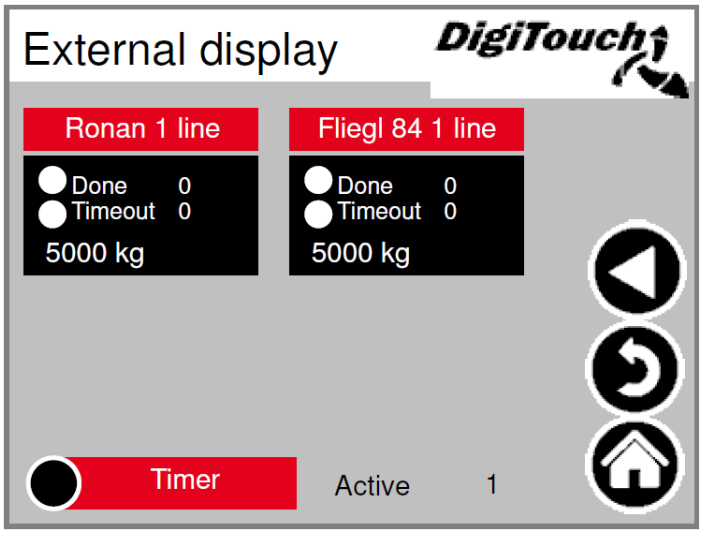


8.9.2 External display 5 - 6

Activating an external display.
Active: See external display 1 - 4 (See section 8.9.1)

ATTENTION! Many settings require a new start for them to take effect.
ATTENTION! Ronan 1-line and Fliegl 1-line should not be selected because this types hav always 2-lines.

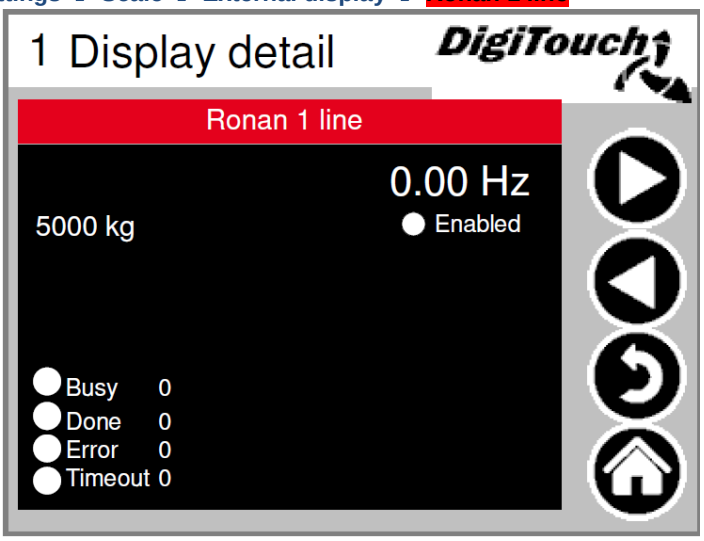
Main menu ➔ Basic settings ➔ Scale ➔ External display ➔ 1x ▷



8.9.3 Display 1 detail (1 line)

Detailed view of the display, for all 1 line displays the mask looks like this (1 data area).

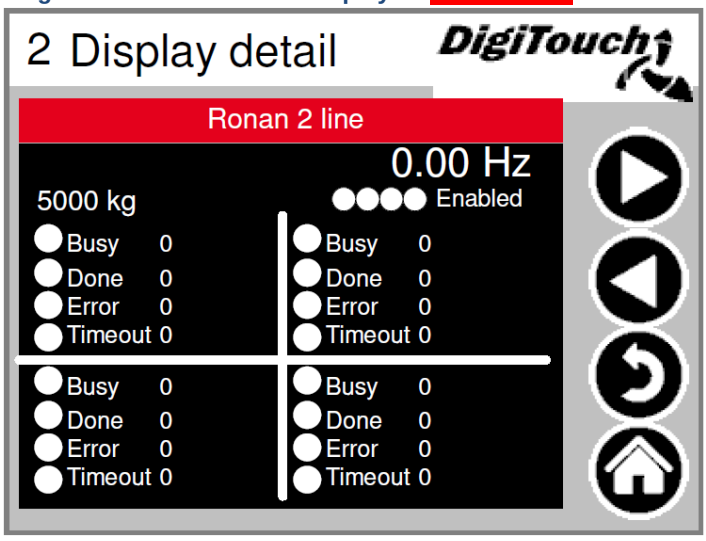
Main menu ➔ Basic settings ➔ Scale ➔ External display ➔ Ronan 1 line



8.9.4 Display 2 detail (2 lines)

Detailed view of the display, for all 2 line displays the mask looks like this (4 data areas).

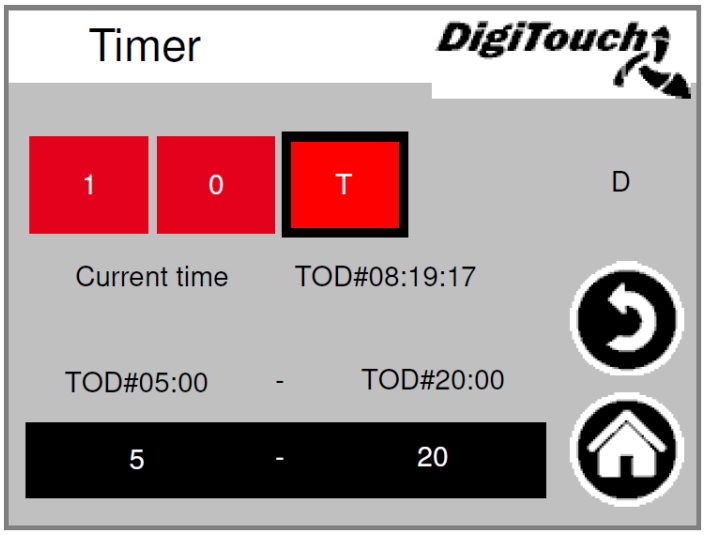
Main menu ➔ Basic settings ➔ Scale ➔ External display ➔ Ronan 2 line



8.9.5 Timer

Here you can activate night mode (T). At the bottom of the page the time can be set, from when till when the display is activated. Or continuous mode continuous-OFF (0).

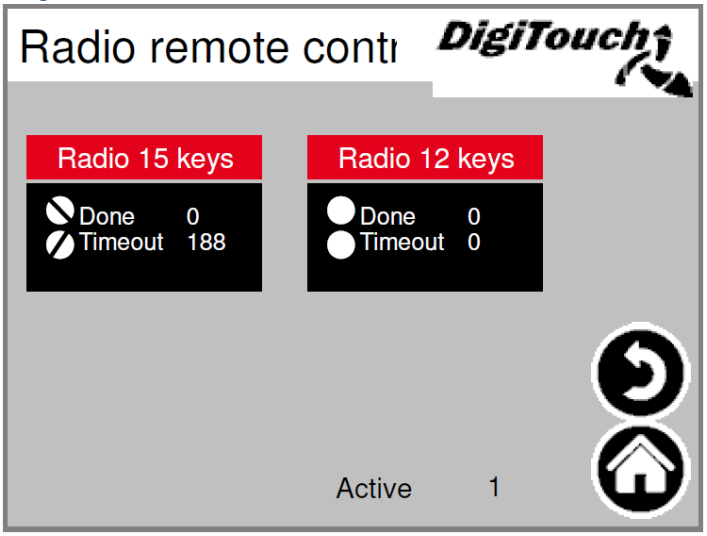
Main menu ➔ Basic settings ➔ Scale ➔ External display ➔ Timer



8.9.6 Radio remote control

Touch box to activate Touch bar to get to details. Only select 15 touch radio if no SD-card has been inserted and activated. Otherwise no PROFINET is possible.
Active: Shows how many radio remote controls are active.

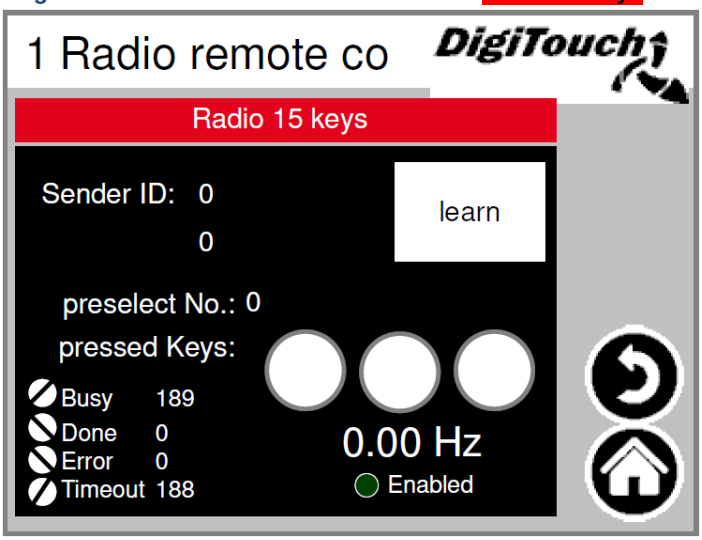
Main menu ➔ Basic settings ➔ Scale ➔ Radio remote control



Radio remote control detail - 15 keys

Detailed view radio. The serial number is saved here using "learn".
Sender ID: Only if the address of the radio is displayed, "learn" can be used.
3 circles depict the state of the 3 upper keys.

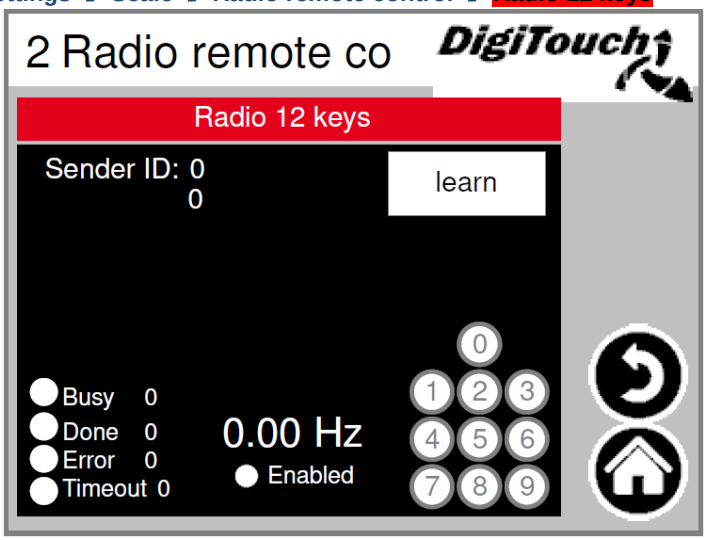
Main menu ➔ Basic settings ➔ Scale ➔ Radio remote control ➔ Radio 15 keys



Radio remote control detail - 12 keys

Detailed view radio. The serial number is saved here using "learn".
Sender ID: Only if the address of the radio is displayed, "learn" can be used.
Number field shows which signals come from the radio.

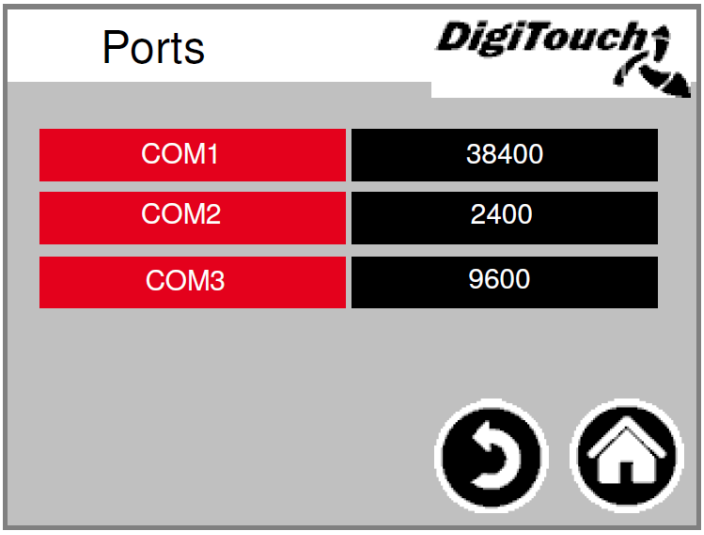
Main menu ➔ Basic settings ➔ Scale ➔ Radio remote control ➔ Radio 12 keys



8.10 COM ports

Display of the 3 COM port baud rates. For diagnostic purposes!
COM1 = Display (display variations)
COM2 = Radio 15 buttons
COM3 = Scale, radio 12 buttons, adam mode

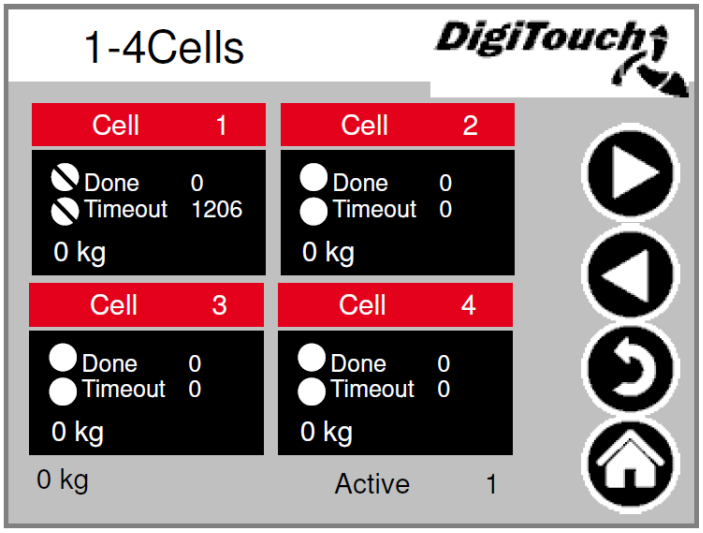
Main menu ➔ Basic settings ➔ Scale ➔ Ports



8.11 Cells 1 - 4 (identical 5 - 8; 9 - 12; 14 - 17)

Overview of 4 cells each. Arrows for browsing. Touch box to activate Touch bar to get details.
If done counts, all right.
If timeout counts up, cell faulty.
"Active": Shows how many cells are active per page.

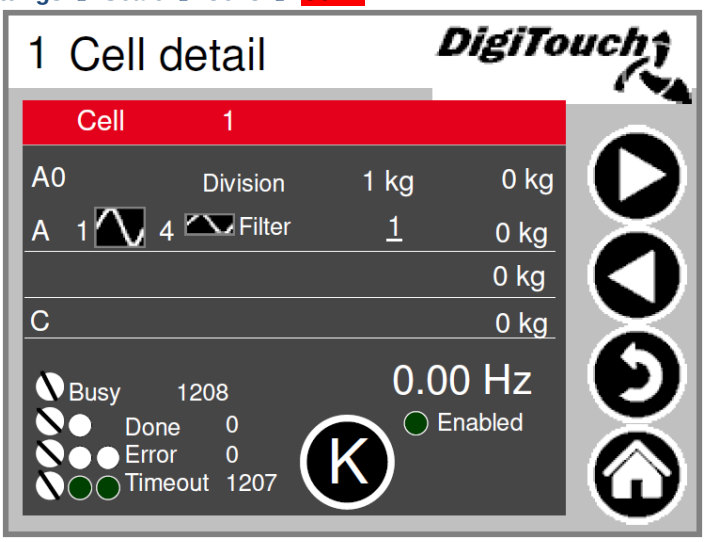
Main menu ➔ Basic settings ➔ Scale ➔ Cells



8.11.1 Cell 1 (identical)

Detail menu including
setting minimum and maximum cell loading;
Filter A (and C in older versions) Programming the weight cell with "K".
If error counts up, cell is defective.
Division 10kg = cell D50
Division 1kg = all other D-types

Main menu ➔ Basic settings ➔ Scale ➔ Cells ➔ Cell 1

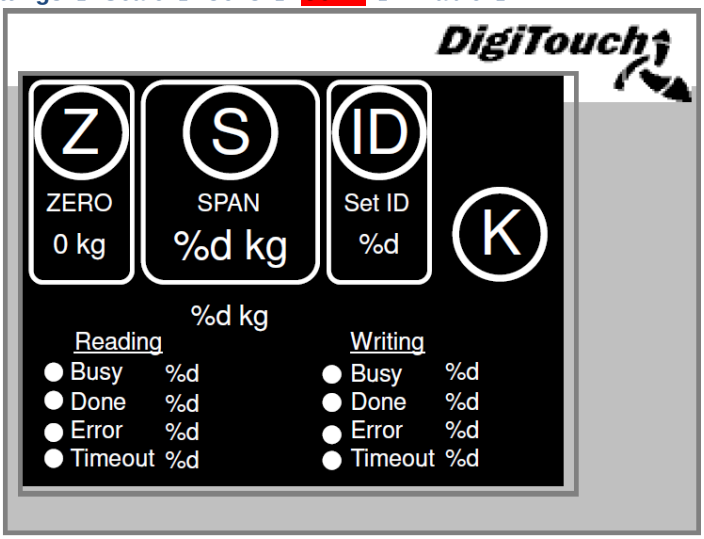


8.11.2 Calibrate (identical)

The individual cells get a new 0 value with Z.
The maximum weight value can be indicated with S, this should be done only with a calibrated press.
Otherwise the cell is defective. With ID can be send the required address to an arbitrary cell.

ATTENTION! Only perform in unloaded condition. (Z)
ATTENTION! only one cell may be connected at one time.
Otherwise all cells have the same address. (S)

Main menu ➔ Basic settings ➔ Scale ➔ Cells ➔ Cell 1 ➔ Enable ➔ K



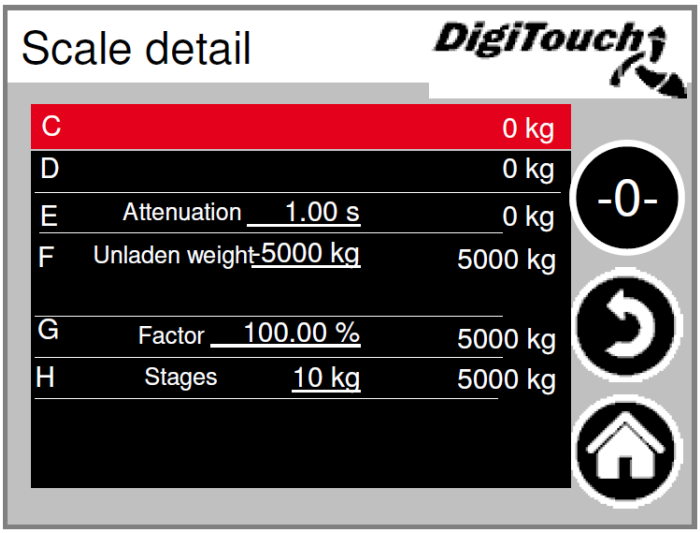
8.11.3 Settings scale detail

Maximum and minimum weighing capacity; total filter ➔ older version

increments "-0-": Set container offset (attention only for empty containers)
Factor: calibrate the weighing device
Steps: Display in 10kg steps
Damping: PT1-part, recommendation of 2 seconds
Empty weight: tare weight of the container

ATTENTION! Only by time dosing the value has to be set on -5000kg

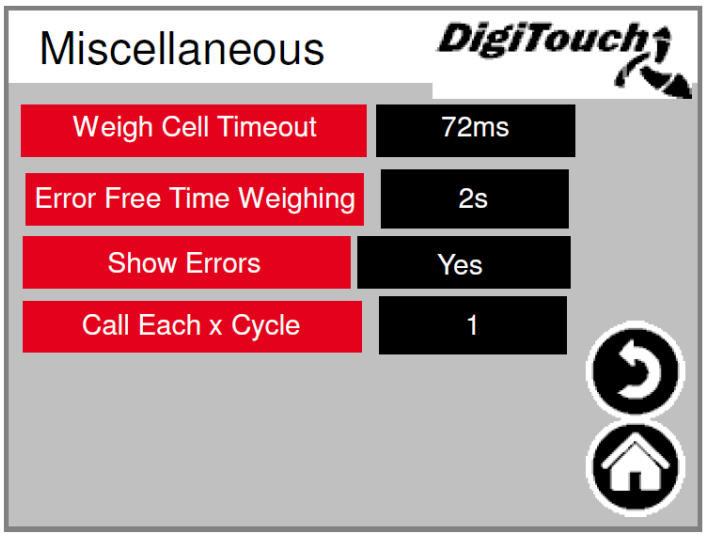
Main menu ➔ Basic settings ➔ Scale ➔ Cells ➔ Scale detail



8.11.4 Miscellaneous

Weigh Cell Timeout: response time of the cell.
Error Free Time Weighing: time when consectuive errors not lead to the cancellation of the feeding.
Show Errors: Deactivate/Activate, that alarms be displayed.
(ATTENTION if "No" it can come to uncontrolled dosing ➔ complete dosing all at once)
Call Each x Cycle: Selection

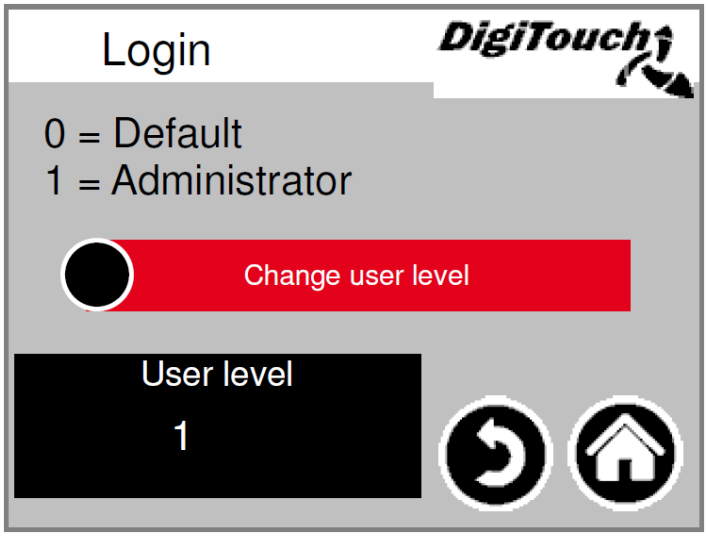
Main menu ➔ Basic settings ➔ Scale ➔ Cells ➔ Miscellaneous



8.11.5 Login

Here is the log in and the log out for the admin.

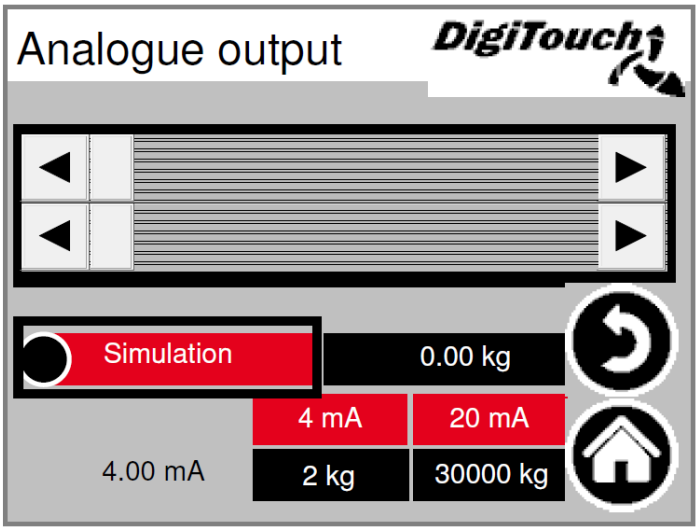
Main menu ➔ Basic settings ➔ Scale ➔ Login



8.12 Analogue output 4..20mA

Parameterisation of the analogue output. Simulation can be used, in order to make a comparison with the higher-level control system. The red boxes with mA values shown the scaling of the system.
With the black boxes with the kg values the settings of the filling weight can be made. This has to accord to the higher-level system. The mA value besides the black boxes shows the current output mA value.

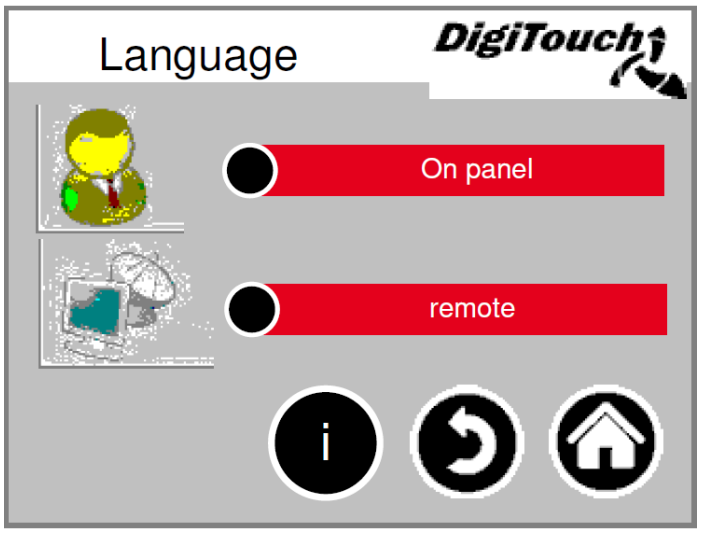
Main menu ➔ Basic settings ➔ Analogue output



8.13 Language selection

Here you can specify if working locally or at a remote location.
"Working locally" relate to DC1000 panel and the VNC mode of EC1000 "Remote location" relate to Web-Visu, the Java visualisation, which can be reached from for example http://10.20.10.2:8040/webvisu.htm It also relate to the http visualization of the external touch panel, the digitouch and the spidercontrol app.

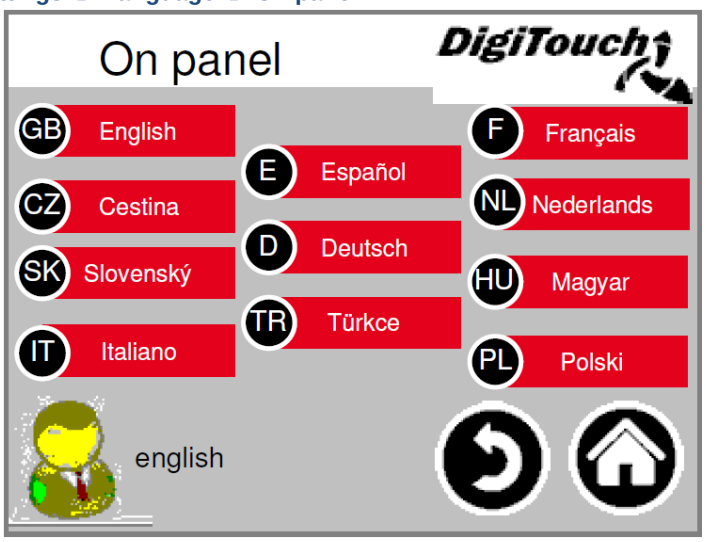
Main menu ➔ Basic settings ➔ Language



8.13.1 Local language selection

Language switch - local. The language of the touch screen is changed and saved in such a way, that it is still available at the next start (power fail- safe).

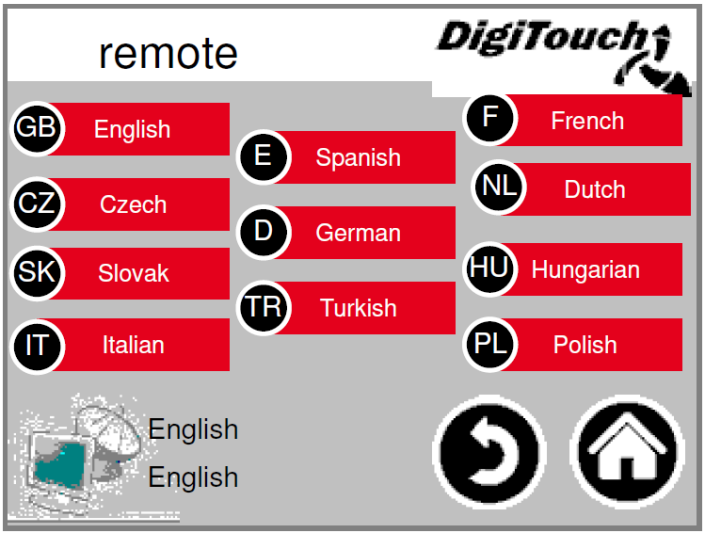
Main menu ➔ Basic settings ➔ Language ➔ On panel



8.13.2 Language selection removed

Language switch - remote. Here the language can be changed using a remote console, e.g. via the Web.

Main menu ➔ Basic settings ➔ Language ➔ remote

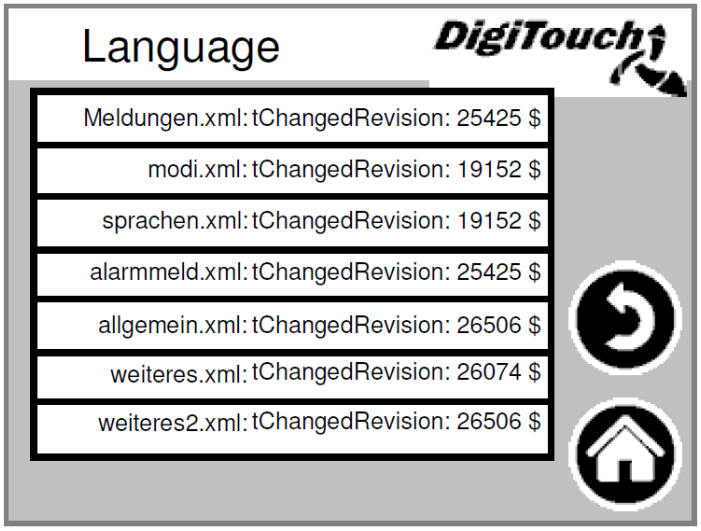


8.13.3 Language file information

The language file version is shown here.
This is to check whether a file update was successful.

This information are only important for the service technicians.

Main menu ➔ Basic settings ➔ Language ➔ i



9. Alarm texts

0	system/alarmgropallalarms 0	72	system/alarmgropallalarms 72
1	Emergency stop	73	system/alarmgropallalarms 73
2	Fault screw 2	74	system/alarmgropallalarms 74
3	Fault screw 3	75	system/alarmgropallalarms 75
4	Fault screw 1	76	system/alarmgropallalarms 76
5	Fault roof valve fuse	77	system/alarmgropallalarms 77
6	Fault variable frequency mixer motor FC	78	system/alarmgropallalarms 78
7	Fault hydraulic power unit	79	system/alarmgropallalarms 79
8	Fault right feed	80	system/alarmgropallalarms 80
9	Fault hydraulic roof power unit	81	system/alarmgropallalarms 81
10	Fault valve fuse	82	system/alarmgropallalarms 82
11	Fault roof L2 hydraulic power unit	83	system/alarmgropallalarms 83
12	Fault L2 hydraulic power unit	84	system/alarmgropallalarms 84
13	Fault L2 valve fuse	85	system/alarmgropallalarms 85
14	Fault right elevated screw conveyor	86	system/alarmgropallalarms 86
15	Fault right lateral screw conveyor	87	system/alarmgropallalarms 87
16	Fault screw 4	88	system/alarmgropallalarms 88
17	Fault metering screw 1	89	system/alarmgropallalarms 89
18	Fault metering screw 2	90	system/alarmgropallalarms 90
19	Fault metering screw 3	91	system/alarmgropallalarms 91
20	Fault metering screw 4	92	system/alarmgropallalarms 92
21	Fault metering screw 5	93	system/alarmgropallalarms 93
22	Fault metering screw 6	94	system/alarmgropallalarms 94
23	Fault mixer	95	system/alarmgropallalarms 95
24	Fault right mixer	96	system/alarmgropallalarms 96
25	A1 card error	97	system/alarmgropallalarms 97
26	Fault FC screw 4	98	system/alarmgropallalarms 98
27	A2 card error	99	system/alarmgropallalarms 99
28	A3 card error	100	system/alarmgropallalarms 100
29	Fault FC screw 3	101	system/alarmgropallalarms 101
30	Fault FC screw 2	102	system/alarmgropallalarms 102
31	Fault FC screw 1	103	system/alarmgropallalarms 103
32	Load cell 1 error	104	system/alarmgropallalarms 104
33	Load cell 2 error	105	system/alarmgropallalarms 105
34	Load cell 3 error	106	system/alarmgropallalarms 106
35	Load cell 4 error	107	system/alarmgropallalarms 107
36	Load cell 5 error	108	system/alarmgropallalarms 108
37	Load cell 6 error	109	system/alarmgropallalarms 109
38	Load cell 7 error	110	system/alarmgropallalarms 110
39	Load cell 8 error	111	system/alarmgropallalarms 111
40	Load cell 9 error	112	Low available memory
41	Load cell 10 error	113	Very low available memory
42	Load cell 11 error	114	RETAIN memory error
43	Load cell 12 error	115	Time delayed switch off
44	Load cell 13 error	116	Low available SD memory
45	Load cell 14 error	117	Very low available SD memory
46	Load cell 15 error	118	HAlarmGroupMemory.m.ID06
47	Load cell 16 error	119	HAlarmGroupMemory.m.ID07
48	Load cell 1 no response	120	HAlarmGroupMemory.m.ID08
49	Load cell 2 no response	121	HAlarmGroupMemory.m.ID09
50	Load cell 3 no response	122	HAlarmGroupMemory.m.ID10
51	Load cell 4 no response	123	HAlarmGroupMemory.m.ID11
52	Load cell 5 no response	124	HAlarmGroupMemory.m.ID12
53	Load cell 6 no response	125	HAlarmGroupMemory.m.ID13
54	Load cell 7 no response	126	HAlarmGroupMemory.m.ID14
55	Load cell 8 no response	127	Wireless ID error
56	Load cell 9 no response	128	Fault CAN master
57	Load cell 10 no response	129	Fault CAN outputs
58	Load cell 11 no response	130	Fault CAN FC1
59	Load cell 12 no response	131	Fault CAN FC2
60	Load cell 13 no response	132	Fault CAN FC3
61	Load cell 14 no response	133	Fault CAN FC4
62	Load cell 15 no response	134	Fault CAN FC5
63	Load cell 16 no response	135	IAlarmGroupCANBus.m.ID07
64	system/alarmgropallalarms 64	136	IAlarmGroupCANBus.m.ID08
65	system/alarmgropallalarms 65	137	IAlarmGroupCANBus.m.ID09
66	system/alarmgropallalarms 66	138	IAlarmGroupCANBus.m.ID10
67	system/alarmgropallalarms 67	139	IAlarmGroupCANBus.m.ID11
68	system/alarmgropallalarms 68	140	IAlarmGroupCANBus.m.ID12
69	system/alarmgropallalarms 69	141	IAlarmGroupCANBus.m.ID13
70	system/alarmgropallalarms 70	142	IAlarmGroupCANBus.m.ID14
71	system/alarmgropallalarms 71	143	IAlarmGroupCANBus.m.ID15

10. Notification texts

0	MELDUNG_INIT	Notification after switch on
1	MELDUNG_PAUSE	Pause
2	MELDUNG_HAND	Manual
3	MELDUNG_AUS	Off
4	MELDUNG_BEFUELLEN	Filling
5	MELDUNG_EXTERN_PAUSE	Exernal pause
8	MELDUNG_LEER	Minimum weight
9	MELDUNG_STOERUNG	Fault
10	MELDUNG_VORLAUF_RUEHRWERK	Agitator startup
11	MELDUNG_VORLAUF_FOERDERSCHNECKE_1	screw 1 startup
12	MELDUNG_VORLAUF_FOERDERSCHNECKE_2	screw 2 startup
13	MELDUNG_VORLAUF_FOERDERSCHNECKE_3	screw 3 startup
21	MELDUNG_VORLAUF_DOSIERSCHNECKE_1	Metering screw 1 startup
22	MELDUNG_VORLAUF_DOSIERSCHNECKE_2	Metering screw 2 startup
23	MELDUNG_VORLAUF_DOSIERSCHNECKE_3	Metering screw 3 startup
24	MELDUNG_VORLAUF_DOSIERSCHNECKE_4	Metering screw 4 startup
25	MELDUNG_VORLAUF_DOSIERSCHNECKE_5	Metering screw 5 startup
26	MELDUNG_VORLAUF_DOSIERSCHNECKE_6	Metering screw 6 startup
32	MELDUNG_VORLAUF_MISCHER_LANGSAM	Mixer slow startup
33	MELDUNG_VORLAUF_MISCHER_SCHNELL	Mixer fast startup
41	MELDUNG_DOSIERUNG	Dosage
52	MELDUNG_NACHLAUF_MISCHER_SCHNELL	Mixer fast run down
53	MELDUNG_NACHLAUF_MISCHER_LANGSAM	Mixer slow run down
62	MELDUNG_NACHLAUF_DOSIERSCHNECKE_6	Metering screw 6 run down
63	MELDUNG_NACHLAUF_DOSIERSCHNECKE_5	Metering screw 5 run down
64	MELDUNG_NACHLAUF_DOSIERSCHNECKE_4	Metering screw 4 run down
65	MELDUNG_NACHLAUF_DOSIERSCHNECKE_3	Metering screw 3 run down
66	MELDUNG_NACHLAUF_DOSIERSCHNECKE_2	Metering screw 2 run down
67	MELDUNG_NACHLAUF_DOSIERSCHNECKE_1	Metering screw 1 run down
71	MELDUNG_NACHLAUF_FOERDERSCHNECKE_3	screw 3 run down
72	MELDUNG_NACHLAUF_FOERDERSCHNECKE_2	screw 2 run down
73	MELDUNG_NACHLAUF_FOERDERSCHNECKE_1	screw 1 run down
74	MELDUNG_NACHLAUF_RUEHRWERK	Agitator run down
80	MELDUNG_AUTOMATISCHE_RUECKFAHRT	Automatic return
81	MELDUNG_ENTLEERHUB	Emptying stroke
82	MELDUNG_DUMP_SIGNAL	DUMP Signal
83	MELDUNG_FREIFAHREN	Retraction
84	MELDUNG_ANGEFORDERTE RUECKFAHRT	Requested return
85	MELDUNG_WAAGE_BERUHIGUNG	Weigthing stabilization
0	0	Notification after switch on

Icon legend

	Switches to the page in the red
	Currently not available
	Here is the overview about …
	Switches to the feeding page
	Reset the FU
	Switches to the previous page
	Switches to the main menu
	Shows the alarm history
	Shows the further section of the page
	Shows the previous section of the page
	Additional equipment (for example metering screw) appears on the manual operation page if the system has 1 to 6 additional equipments
	Shows the detailed view of the cell, the display or the ADAM module. For example cell 1
	Bolean operator is shown, if pause negate is selected in the external equipment
	Flag, pause signal is extended
	Shows if something is selected, not selected
	Shows if something is selected, selected
	Shows if something is selected, not selected
	Shows if something is selected, selected
	Here it switches to the cell calibration page only visible for the admin
	Can indicate the maximum weight value
	Send the required address to an arbitrary cell
	Can give individual cells a new 0 value
	Set container offset
	Shows language file information
	Agitator
	Screw
	Mixer motor
	Limit switch not activated
	Limit switch activated

Fliegl Dosiertechnik
Bürgermeister-Boch-Str. 1
D-84453 Mühldorf a. Inn
Tel.: +49 (0) 86 31 307-0
Fax: +49 (0) 86 31 307-550
e-Mail: info@fliegl.com

We are Fliegl.

www.fliegl.com

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