



Manual

Version 5 En (18-10-2011)



Weight controller type Flex-BW

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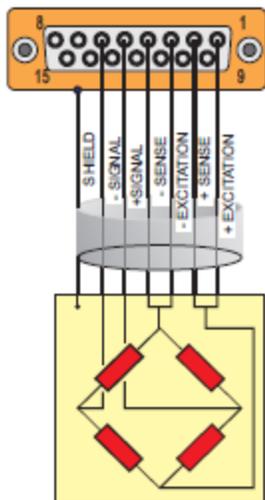
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Wiring connection for Flex-BW model Flex.

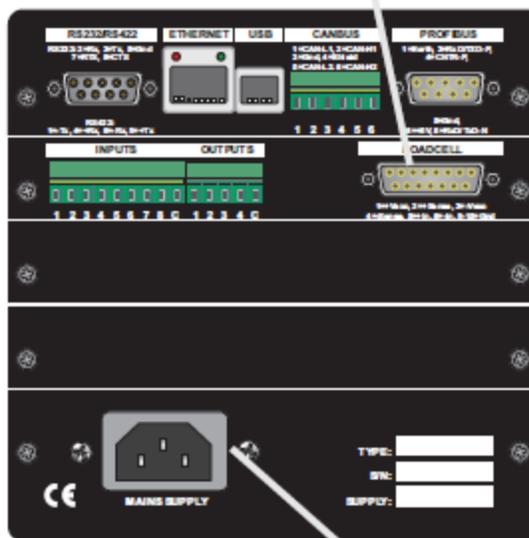
Loadcell connection,
15p sub-D Female:

1. + Excitation
2. + sense
3. - Excitation
4. - Sense
5. + Signal
6. - Signal

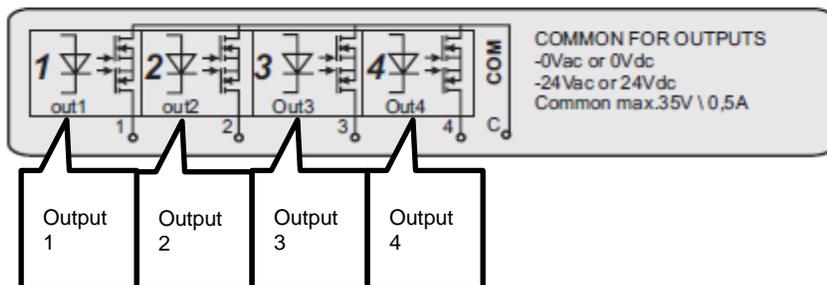
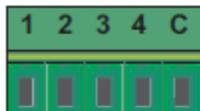
Housing. Shield



Loadcell connection

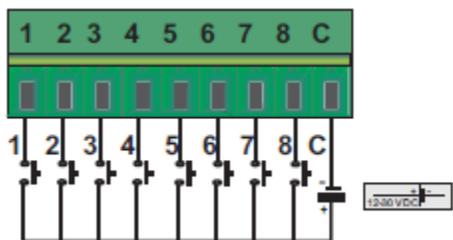


Digital Outputs:



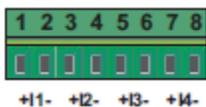
AC Power supply
230 Vac 50/60 Hz

Digital Inputs:

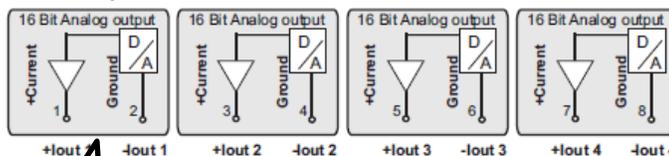


- Input 1: Pulzen (speed)
- Input 2: not used
- Input 3: Start weighing(option)
- Input 4-8: Not used

Analog Outputs: (option)



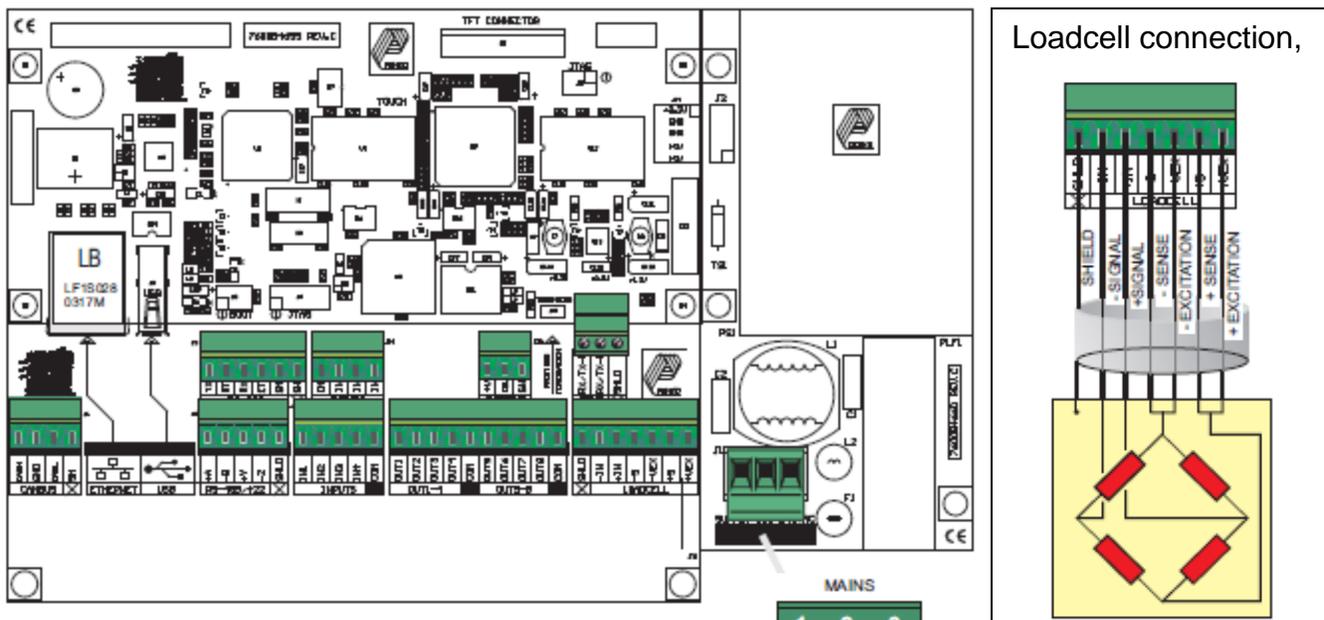
Current outputs, 0/4 - 20/24mA



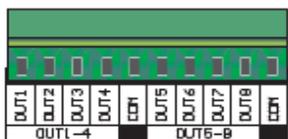
Analog output 1:



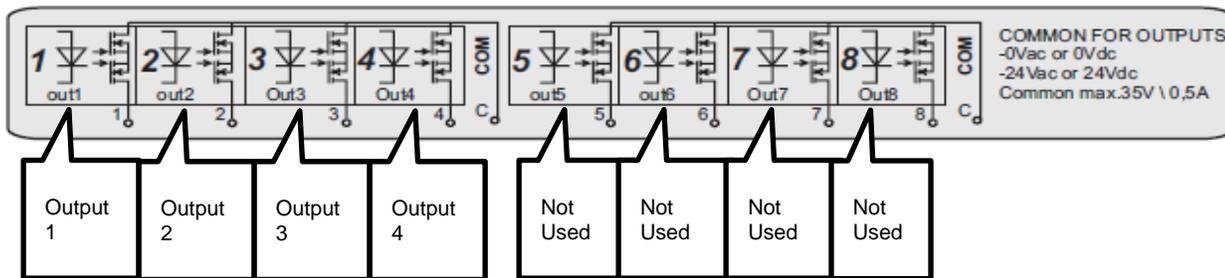
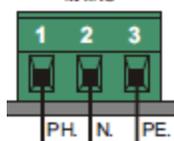
Wiring connection for Flex-bw model Flex-2100.



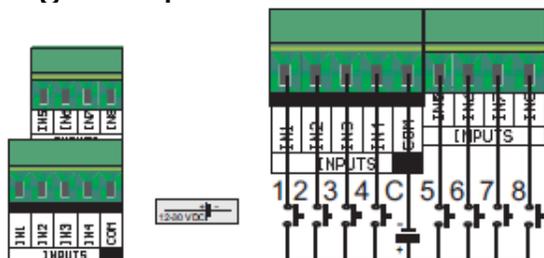
Digital Outputs:



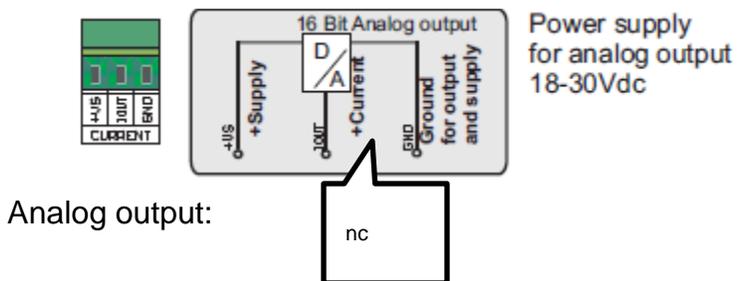
AC Power supply
230 Vac 50/60 Hz



Digital Inputs:



Analog Output: (option)



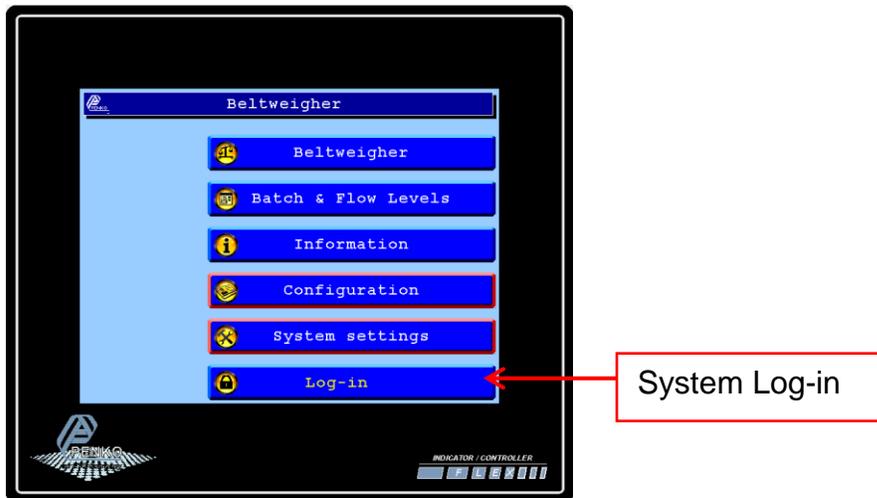
- Input 1: Pulzen (speed)
- Input 2: Not used
- Input 3: Start weighing (option)
- Input 4-8: Not used

Selection Menu.

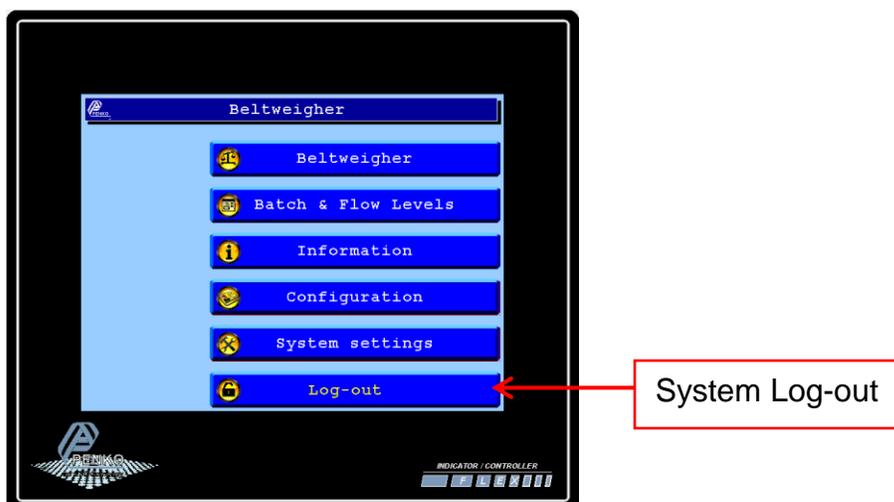
From the Selection menu it's possible to enter the several Screens.

The Configuration and System setting are locked by a password, log-in with the Log-in button first. To log-out, press the Log-out button.

Screen if Configuration and System settings are disabled:



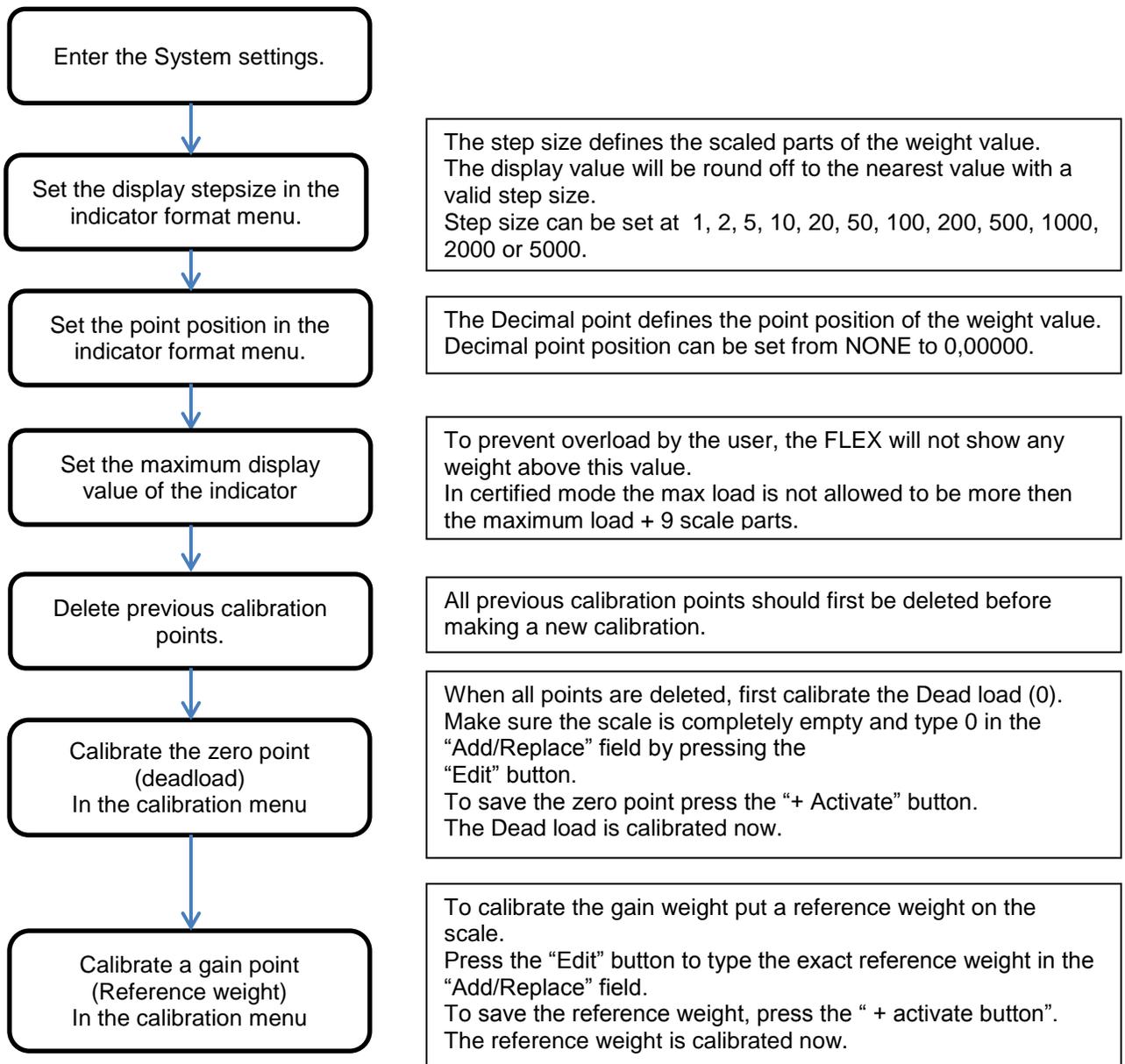
Screen if Configuration and System settings are enabled:



First use of the indicator.

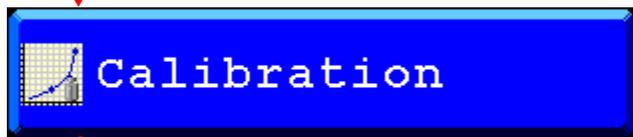
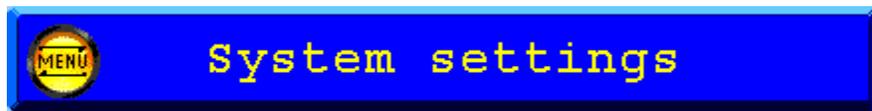
Before using the controller, please setup the internal indicator first.

Login first to enter the System settings,
Default no password is selected.
The overall password is “25630”.



Calibration.

To calibrate the indicator, follow the next steps:



Enter the "CAL" code and press OK. This "CAL" code is shown in the right upper corner.



Delete all old calibration points. Make sure all points are deleted.



Make sure the weigher is empty and press the "+Activate" button to save the zero point



Press "EDIT" and put a reference weight on the weigher. Enter the weight of the reference weight and press OK.



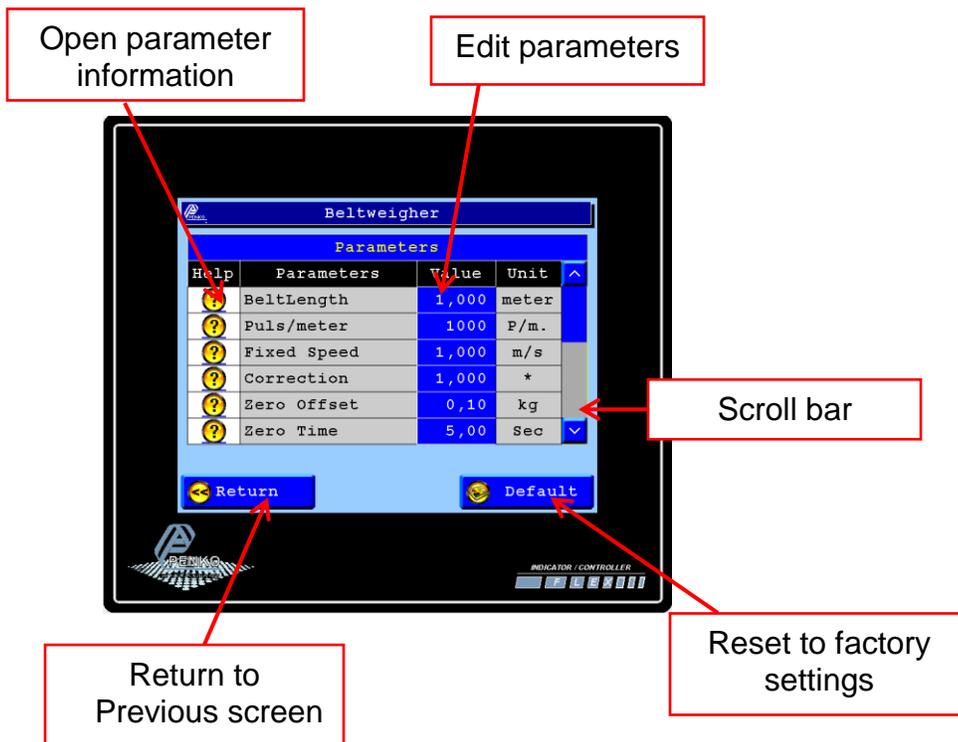
To save the second point, press the "+Activate" button.

Setup the configuration.

Before using the controller, please setup the configuration for your application first.

Login first to enter the System settings,
Default no password is selected.
The overall password is "25630".

Press the blue "Par." fields to enter the needed values.
Press the Question marks to open information about the parameter.
Press the "Default" button to reset to factory setting.
Press the "Return" button to return to the previous screen.



Use the scroll bar to enter the next values.



Use the scroll bar to enter the next values.



Use the scroll bar to enter the next values.

Configuration Parameters.

Belt length	<input checked="" type="checkbox"/>	Puls/meter	<input checked="" type="checkbox"/>
<p>What is the length of the Weighing section. When the whole belt is weighing the length must get measured from the place the product gets on the belt till the end of the belt.</p>		<p>How many Pulse do you get when the belt moves 1 meter.</p>	
Fixed speed	<input checked="" type="checkbox"/>	Correction	<input checked="" type="checkbox"/>
<p>When the belt doesn't have a Pulsgenerator or when it is broken, just fill in the speed of the belt. Speed in m/s</p>		<p>When you run a batch and the Belt which totalized batch, is different as the check batch weight, you can fill in this parameter to correct the difference.</p>	
Zero Offset	<input checked="" type="checkbox"/>	Zero time	<input checked="" type="checkbox"/>
<p>When the weight on the belt is lower than this level the weight is forced set to zero.</p>		<p>When you press the dynamic zero button the belt run for this time, and the weight sampled during this time. When the time is elapsed the average of this weight get subtracted to get a new zero.</p>	
Filter Weight	<input checked="" type="checkbox"/>	Filter kg/s	<input checked="" type="checkbox"/>
<p>The amount of samples that take an avarage in the weight to stabilize the the weigher</p>		<p>The amount of samples that take an avarage in the weight to stabilize the the kg/s flow.</p>	

Filter kg/h	X	Stepsize	X
<p>The amount of samples that take an average in the weight to stabilize the the kg/h flow.</p>		<p>This is the showed stepsize for the flow showed in kg/h</p>	

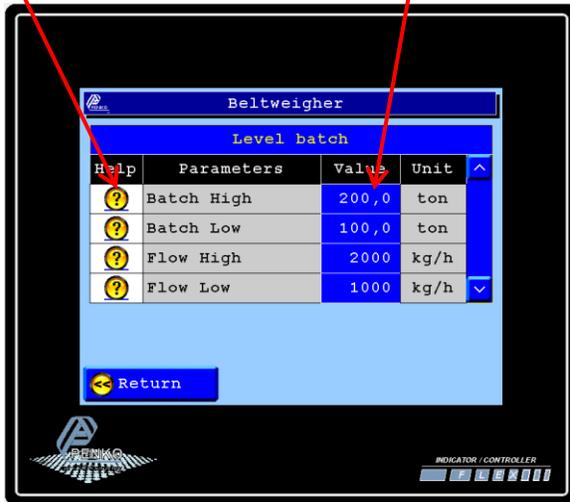
Min/Max Band	X	No Error Band	X
<p>Percentage that will be shown in the scope.</p>		<p>Percentage that will be shown green (ok) in the scope. Values under this percentage will be shown in yellow. Values above this percentage will be shown in red.</p>	

Trigger Time	X	Password	X
<p>The time that the scopes takes a new value.</p>		<p>To unlock the configuration and System settings you need to log in. The password you need to log in can be changed here.</p>	

Batch & Flow levels.

Open parameter information

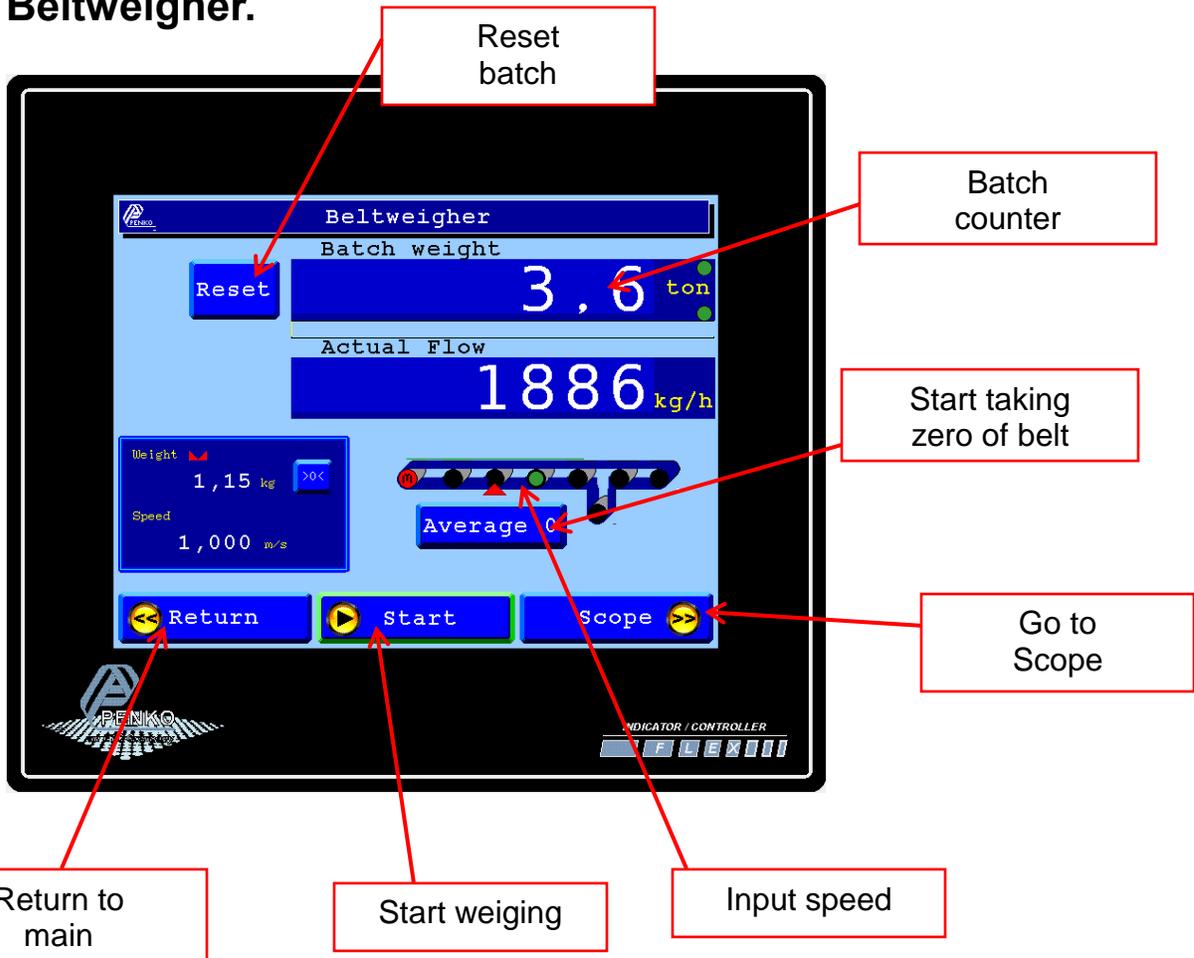
Edit parameters



High Batch Level	X	Low Batch Level	X
When the batch totalizer get over this Level, Output 201 get on. So they can see that the is reached		When the batch totalizer is smaller then this Level, Output 202 is on. So they can see that there is still product needed	

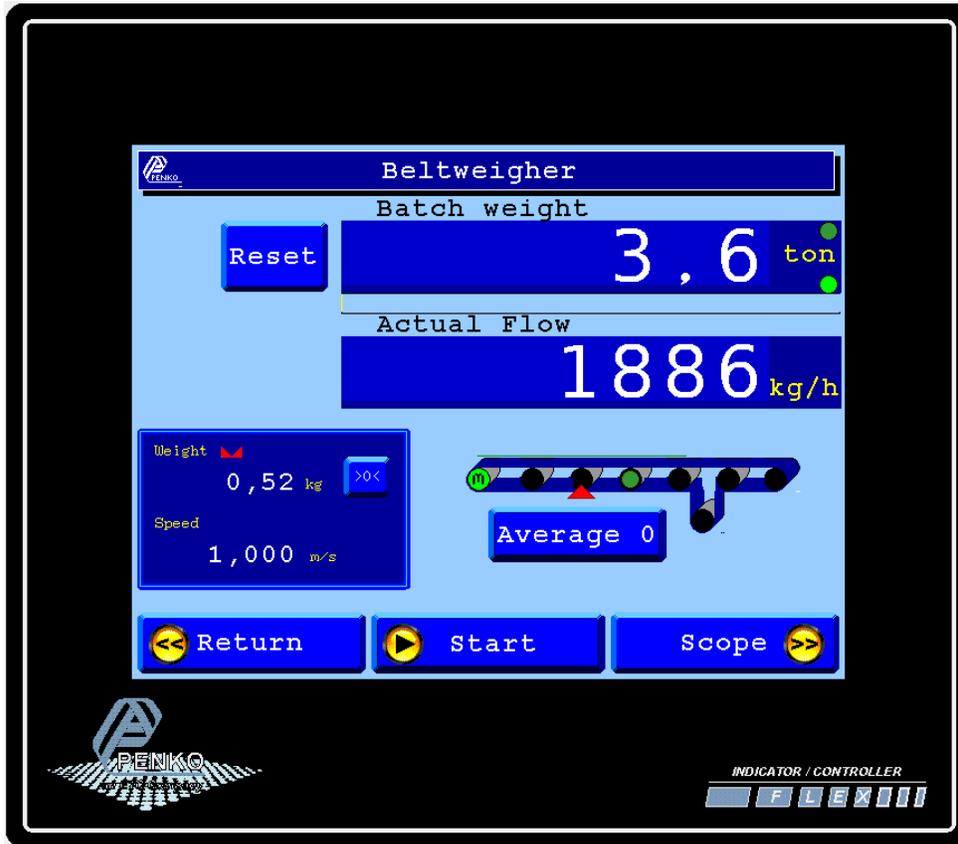
High Flow Level	X	Low Flow Level	X
When the Flow on the belt is higher then this level outp 203 get on. So the operator can see that the belt is overloaded.		When the Flow on the belt is lower then this level outp 204 get on. So the operator can see that the belt is to empty.	

Beltweigher.



When start button is green like above the weigher in not started.
Press start button then the green line is gone and the system is running.

A running screen looks like below,



Information.

To view the Penko contact information, press the “information” button from the selection menu.

