PENKO Engineering B.V.

When Weighing Counts



Manual: FLEX Check Weigher Controller



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Explanation of production screen.





Wiring connection for Flex-CK model Flex.



Digital Inputs:



Input 1: Start (option) Input 2: Stop (option) Input 3: Start Check Input 4-8: Not used



Wiring connection for Flex-CK model Flex-2100.



Digital Inputs:

12-00 VDC





Input 1: Start (option) Input 2: Stop (option) Input 3: Start Check 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. The overall password is "25630".

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:

System s	ettings	
System Setu	p	
Indicator Se	etup	
Calibration		
↓ Enter CAL code	TAC:00000004	Enter the "CAL" code and press OK. This "CAL" code is shown
Points		in the right upper corner.
- Delete	Delete all old calibration points. Make sure all points are deleted.	
+ Activate	Make sure the weigher is empty press the "+Activate" button to s zero point	and ave the
Press "EDIT" and pu weigher. Enter the weight and press OK	t a reference weight on the eight of the reference	
+ Activate	To save the second point, press to "+Activate" button.	he



Setup the Checkweigher 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 "Edit" fields to enter the needed values. Press the question marks to open information about the parameter. Press the "OK" button to return to the previous screen and save the settings.



Factory settings:	
Stability	:OFF
Hold time	:0.00 sec (disabled)
Display hold time	:2.00 sec
Max. Speedbar	:120 pcs/min
Password	:0 (disabled)



Configuration Parameters.



The H-Time works together with the stability parameter.

Display Hold
After sampling is finished the display hold time starts. The sampled value will be froozen on the display for this time. After this time the display is "Live" again. When a new package arives during this time the hold time will be stopped.
<mark>∕ 0</mark> k

Max. Speedbar The max value of the speedbar on the production screen.

ſ		Password	
	Password to p settings, con edit recipe p When this pas password is a	protect the s nfiguration s parameters. rameter is se active.	ystem etting and t to zero no
ž		√0k	



Select/Edit Recipe.

To select a recipe, press the "recipe" button from the production screen.

Select a recipe by pressing on the recipe name in the blue fields. Use the scroll bar to select the next recipes. The screen will automatically return to the production screen after selection.

To edit a recipe Press the recipe number in the gray fields.

To enter the recipe edit screen the user must be logged in.

To return to the production screen without changes, press the "Return" button.





Edit Recipe parameters.

To edit the recipe name, press the recipe name button. To edit a recipe parameter, press the value in the blue fields. Press the question marks to open information about the parameter. To return to the previous screen and save the recipe, press the "Return" button.



Use the scroll bar to enter the next values.

Reci	pe 1	Re	cipe 01			
Promo	Edit r	ec:	ipe			
Help	Parameter		Target	Unit	^	
?	Correction		100,00	8		
?	Delay time Low		1000	mSec		
?	Hold time Low		2000	mSec		
?	Delay time High	ı	1000	mSec		
?	Hold time High		2000	mSec		
?	Analogue		50,00	÷	\sim	
C Re	eturn					
RENKO	W.			INDICATO	R/CON	TROLLER



Recipe parameters.

Low level X
If the checked weight is below this value, the package will be rejected by output low.
Remo High level X
If the checked weight is above this value, the package will be rejected by output high.
<pre> Sample amount X </pre>
Sample amount is the amount of samples to take during the check of the package.
Correction X
With the Correction factor it's possible to correct the fault caused by the dynamic caristics of the machine.
Correction is possible from 0,00 to 200,00 %. 100,00 % means no correction
Delay time low X
Delay time for output low after low level detection.
Remo Hold time low X
Hold time for output low after activating the output.
🖉 Delay time high X
Delay time for output high after high level detection.
Read Hold time high X
Hold time for output high after activating the output.
Analogue Speed X
Set the value for the analogue

Set the value for the analogue output, in 0,01%



Production data.

To view the total checked values, press the "production data" button.

To reset the subtotals, press the Subt." Button To reset the totals and subtotals, press the "Total" button. Press the Question marks to open information about the parameter. To return to the previous screen, press the "Return" button.





Manual Start/Stop via Pushbuttons (Option)

It is possible to start and stop the checkweigher via external pushbuttons.

To start the checkweigher Input 2 needs to be high (and stay high). To actually start the checkweigher input 1 needs to get a pulse.

To stop the checkweiger input 2 needs to be low.

You have to define Input 1 as "start" and Input 2 as "stop". To do this follow the next steps



To define Input 1 as "Start" press the "+" button next to "Function" until you see Start.

To define Input 2 as "Stop" press the "+" button next to "Select Entry". Now can now define Input 2. Press the "+" button next to "Function" until you see Stop.

Press "Ok" to save the setting.





Information.

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

PENKO	Flex Check system		
F	enko Engineering bv.		
5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Schutterweg 35 5718 XC Ede The Netherlands Tel: +31(0)318525630 Fax: +31(0)318529715 email: info@penko.com Support: td@penko.com Www.penko.com Version 12(13-08-2015)		
_	English		
Certifie	d Menu	>>	
		INDICATOR / CON	TROLLER



Select language

Go to the information screen to change the language. Press on 'Language' to go to the Language selection screen

Pare .	Flex Check system
	Penko Engineering bv.
	Schutterweg 35
	6718 XC Ede
	The Netherlands
	Tel: +31(0)318525630
	Fax: +31(0)318529715
	email: info@penko.com
	Support: td@penko.com
	www.penko.com
	Version 11(13-05-2015)
	English
Certifi	.ed 🚾 Menu >>

Select the language you want or press on return to go back to the Information screen.

La La	nguage Selectio	n
	English	
	Nederlands	
	Deutsch	_
GR.Return		

Select extra digit for Certified test.

Extra digit weigher can be activated by pressing on the weigher value on production screen, to return press weight again or wait 2 minutes

Actual weight	001
😁 Sero	- Tare
Low level: 10.0 High level: 11.0	0 kg
Recipe: Recipe 01 Status: Wait for S	tart 0.0 _{Pearst}
😪 Return 🛛 🖲 Sto	P 🚭 Recipe



Sequence example.



Sequence:

- 1. Start.
- 2. Wait for Start
- 3. Start Check (Input 3).
- 4. Check busy ON
- 5. Wait for stable and Holdtime parameter.
- 6. Take amount of Samples.
- 7. Check if weight is too low
 - a. No, to point 8
 - b. yes, start Delay time low
- 8. Check if weight is too High
 - a. No, to point 9
 - b. Yes, start delay time high
- 9. If weight OK, output OK ON
- 10. Check busy OFF
- 11. Dosing ready ON.
- 12. Wait till input start OFF.
- 13. Dosing ready OFF.
- 14. Restart.







PENKO Engineering B.V. • Schutterweg 35, NL 6718XC Ede • Tel +31 (0) 318525630 • Fax +31 (0) 318529715 • <u>info@penko.com</u> **Web • <u>www.penko.com</u>** • 7600M-----EN-R1 • Copyright © 2015 ETC All rights reserved.



About PENKO

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Whether you are looking for a simple stand-alone weighing system or a high-speed weighing and dosing controller for a complex automated production line, PENKO has a comprehensive range of standard solutions you can rely on.

Certifications

PENKO sets high standards for its products and product performance which are tested, certified and approved by independent expert and government organizations to ensure they meet – and even – exceed metrology industry guidelines. A library of testing certificates is available for reference on:

http://penko.com/nl/publications_certificates.html



PENKO Professional Services

PENKO is committed to ensuring every system is installed, tested, programmed, commissioned and operational to client specifications. Our engineers, at our weighing center in Ede, Netherlands, as well as our distributors around the world, strive to solve most weighing-system issues within the same day. On a monthly basis PENKO offers free training classes to anyone interested in exploring modern, high-speed weighing instruments and solutions. A schedule of training sessions is found on: www.penko.com/training

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