PENKO Engineering B.V.

Your Partner for Fully Engineered Factory Solutions

Quick start/Connection guide:

1020

PENKO
an ETC Company

1020 Indicator

1. Push button functions

Tare

Preset Tare

Enter, press **>2s** =>Menu

Zero or reset/
clear entry

Up

Down

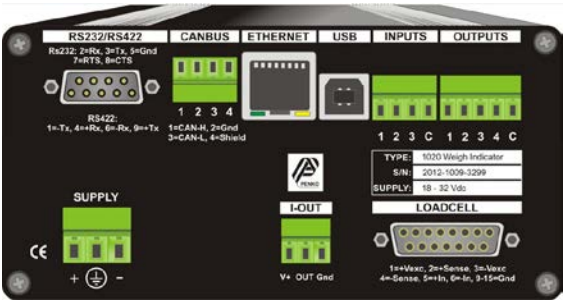
Print or Escape

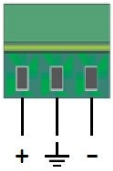
Left

Right

2. Load cell / power connection

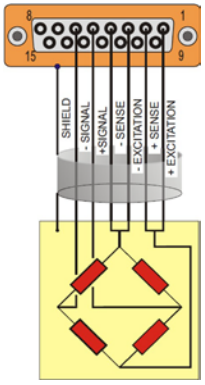
This product is intended to be supplied by a Class 2 or Limited Power Source, rate 18 - 32 Vdc, 0.4A@24Vdc.





Supply 18 - 32 Vdc

Power connection



Load cell connection

1020 Indicator

3. First use of indicator

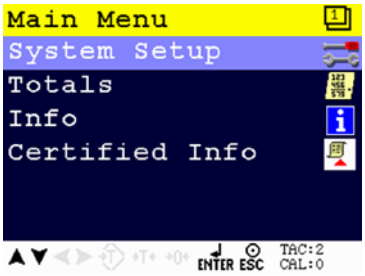
To make the indicator ready for first use, set up the correct indicator setting (step size and decimal point position).

The start

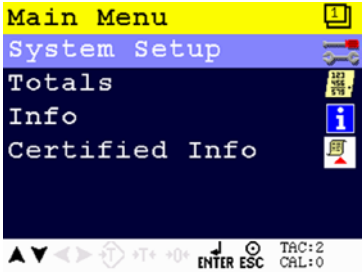
Turn the indicator on by connecting it to the power supply.

Press ENTER for 2 seconds to get in to **Main Menu** screen

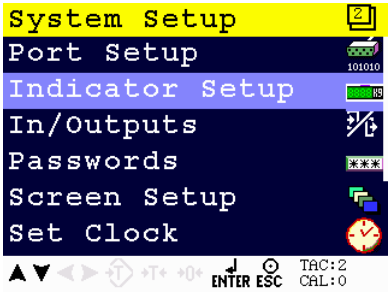
> 2 s



Select **System** **setup** and press **Enter**



Use the DOWN key to select **Indicator Setup** and press **Enter**



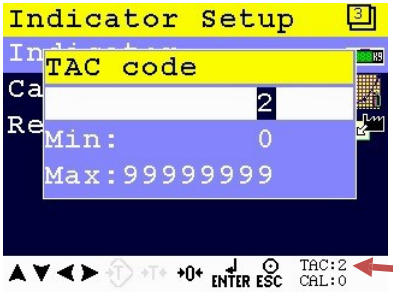
1020 Indicator

First use of indicator -continue-

Entering the TAC number

Select **Indicator** and press **Enter**

Enter TAC (number) by using the UP key and confirm with **Enter**



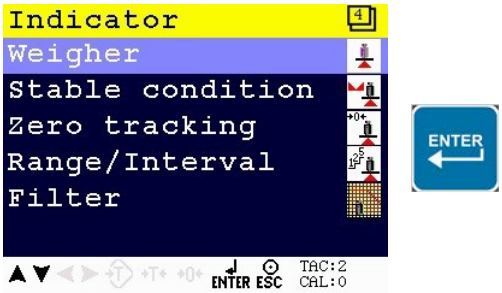
TAC (Traceable Access Code) shows on lower right of the screen.
Every time settings are changed, the TAC automatically levels up by 1.
Example TAC:2

1020 Indicator

First use of indicator -continue-

Step size

Select Weigher and press **Enter**



Use the DOWN key to select **Step** and confirm with **Enter**

The step size define the scaled parts of the weigh value. The display value will be rounded off to the nearest value with a valid step size. Step size can be 1, 2, 5, 10, 20, 50,100, 200.

Example step size:
weigher value is 2005 kg

Step Size	Weight (kg)
1	2005
2	2006
5	2005
10	2010

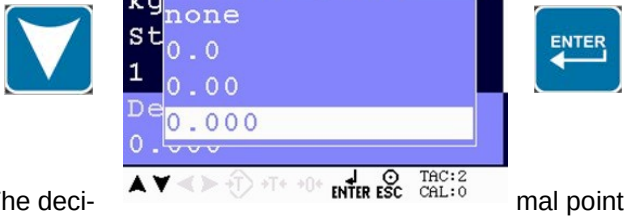
1020 Indicator

First use of indicator -continue-

Use the UP and DOWN key to select the correct step size and confirm with **Enter**

Decimal point position

Use the DOWN key to select **Decimal point** and press **Enter**



The decimal point defines the point of decimal of the weigh value.
Choose between 0, 1, 2 or 3 decimals.

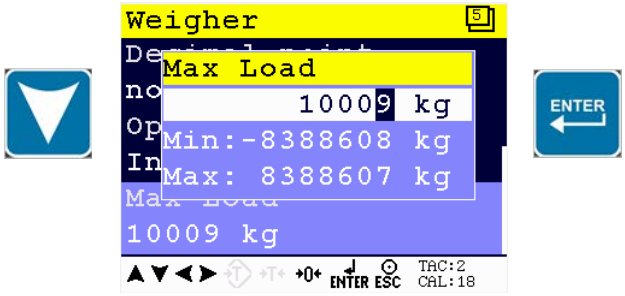
Use the UP and DOWN key to select the correct decimal point and confirm with **Enter**

1020 Indicator

First use of indicator -continue-

Maxload

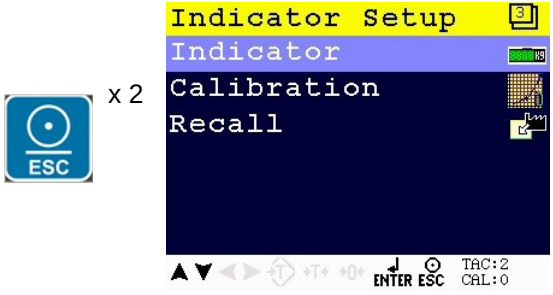
Use the DOWN key to select **Maxload** and press **Enter.**



The max load prevents overload by user. Any weight above this set value will not be shown. If there is an overload, display shows ======.
Note: In certified mode the max. load is not allowed to be more then the maximum load + 9 scale parts.

Use the UP, DOWN and LEFT key to enter the reference value. The UP and DOWN keys are used for changing the number (1-9), the LEFT key is used for changing the position of the cursor.

Press ESC twice to go back to the Indicator Setup Menu



1020 Indicator

4. Calibration

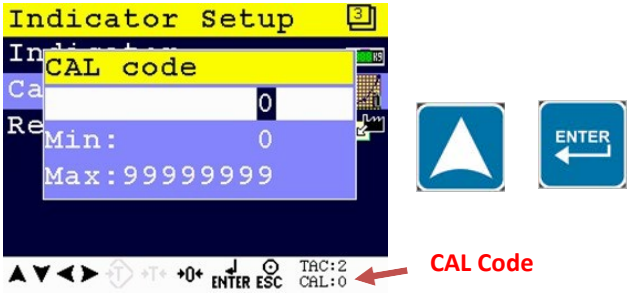
Calibration settings are used to check, delete and set calibration points.

First, enter the Indicator Setup menu as decribed on page 3, and press the DOWN key to go to **Calibration** and press **Enter**. If you are already in the Indicator Setup menu, use the DOWN key to go to **Calibration** and press **Enter.**

Enter **CAL code (number)** by using the UP key and confirm with **Enter**.

CAL code shows on the lower right of the screen. Every time calibration settings are changed, the CAL code automatically levels up by 1.

Example CAL:0

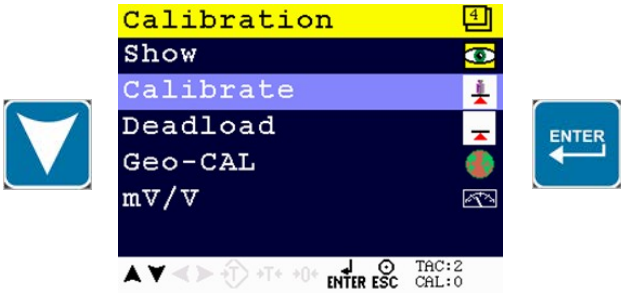


1020 Indicator

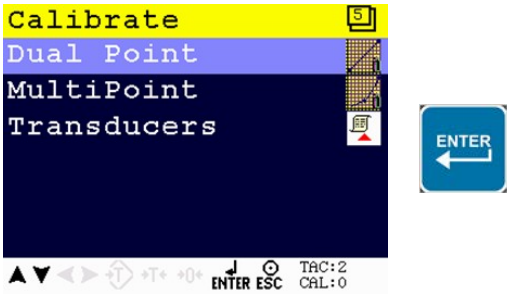
Calibration -continue-

Setting calibration points

Use the DOWN key to select **Calibration** and press **Enter**

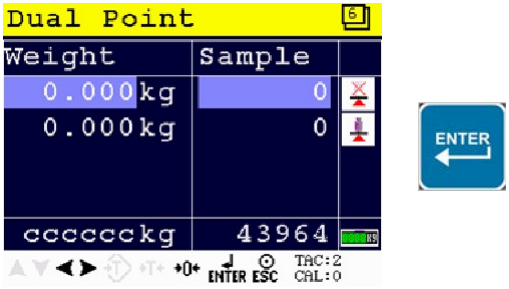


Select **dual point** and press **Enter**



Before you proceed, make sure the weigher is unloaded.

First calibrate the zero point with the unloaded weigher by pressing **Enter**



1020 Indicator

Calibration -continue-

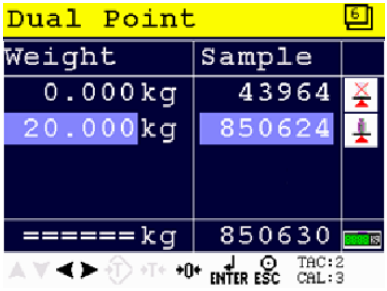
For setting the second calibration point a reference value is needed. For this example, a actual reference weight of 20 kg was used.

Use the DOWN key to select the second calibration point and press **Enter.**

Use the UP, DOWN and LEFT key to enter the reference value. The UP and DOWN keys are used for changing the number (1-9), the LEFT key is used for changing the position of the cursor.

Load the weigher with the reference value and press the **Enter** key.

The calibration was succesful when the following screen is visible:



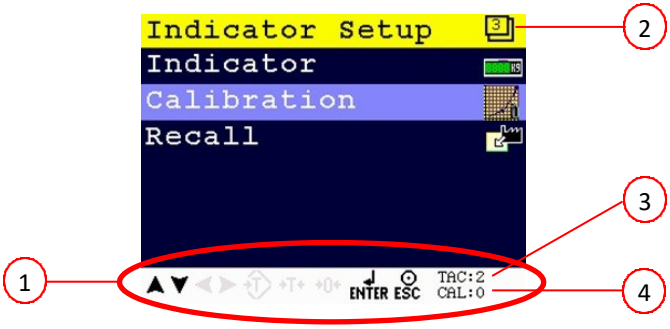
Press the **Esc** key six times to go back to the main screen.

x 6

5. Weigher Error Codes

Error Code	Description	Solution
CCCCCC	No proper calibration available	Check calibration setting
UUUUUU	Underflow	Check loadcell Check platform construction
OOOOOO	Overflow	Check loadcell Check platform construction
======	Display overflow; Exceed maximum display value (max. load)	Reduce load on platform

6. Screen Elements



1. Active keys
2. Menu level
3. Traceable Acces Code
4. Calibration Code

1020 Indicator

7. Standard Factory Setting

Description	Display	Value	Your setting
Weigher	Name		
	Unit label	Kg	
	Step	1	
	Decimal Point	0,000	
	Operation Mode	Industrial	
	Max Load	10,0009	
Stable condition	Range	0,002	
	Time	1,00 s	
Zero tracking	Range	0,000 kg	
	Step	0,000 kg	
	Time	0,00 s	
Range / Interval	Range	0 Parts	
	Max Step	1	
	Mode	Multi Range	
Overal Filter	Overal	0 dB	
		Static App	
Digital Filter	Cutoff Frequency	1.0 Hz	
	Frequency	50 Hz	
	Range	0,000 kg	
	Display Filter	0 dB	
	Display Rate	25 updates/ s	
	Disp.Suppress	0,000 kg	

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About PENKO

At PENKO Engineering we specialize in weighing. Weighing is inherently chemically correct, independent of consistency, type or temperature of the raw material. This means that weighing any kind of material guaranties consistency and thus, it is essential to sustainable revenue generation in any industry. As a well-established and proven solution provider, we strive for the ultimate satisfaction of custom design and/or standard applications, increasing your efficiencies and saving you time, saving you money.

Whether we are weighing raw materials, components in batching, ingredients for mixing or dosing processes, - or weighing of static containers and silos, or - in-motion weighing of railway wagons or trucks, by whatever means required during a process, we are essentially forming vital linkages between processes and businesses, anywhere at any time. We design, develop and manufacture state of the art technologically advanced systems in accordance with your strategy and vision. From the initial design brief, we take a fresh approach and a holistic view of every project, managing, supporting and/or implementing your system every step of the way. Curious to know how we do it? www.penko.com

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:
www.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. Training sessions on request: www.penko.com/training

PENKO Distributor

A complete overview you will find on: www.penko.com/Find-A-Dealer