Technical Instructions

Software V1.1

Series OPW-L-SS

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1 Entrance and exit from service menu

When the indicator is switched off and in the normal mode of receiving weights:

Press the “PLU” key during more than 2 seconds.

Press “ENTER” ⊠↵

Enter the password:

If you have 6 zeros in the display “000000”, you need to enter the password “505388” by using the ▲ ▼ keys (increase, decrease) and the ⊠⊠ keys (scroll).

If you have 4 zeros in the display “0000”, you need to enter the password “1009” by using the ▲ ▼ keys (increase, decrease) and the ⊠⊠ keys (scroll).

Press " ENTER " ⊠⌟

General menu operation

Press " ENTER " to get into all setting parameters and use ▲ ▼ keys (increase, decrease) to change the parameters.

Press " ENTER " to confirm.

By using the ⊠ ⊠ keys you can move forward or move back among menu parameters.

To go out **without saving** the settings, press " U " key (esc).

To go out **with saving** the settings, select " QUIT " in the menu and press " ENTER " ⊠⌟ as shown below.

Press " ENTER ". The indicador will go back to the normal weighing mode.

2 Menu UNITS

Select the weight unit which will be displayed on the screen, the place of decimal, the maximal capacity and the first rang division and the second rang division, if it exists.

Select the menu "UNITS"

Press "ENTER" ☒↵

Press 0 or 1 according to our choice; if we want the indicator to display kilograms (kg) or grams (g).

Press "ENTER" ☒↵

Select 0,1,2,3,4 or 5 to choose the number of decimals after the decimal point and press "ENTER" ☒↵

On the following screen we should enter the maximal capacity with which the indicator will be working.

As on the example below, it was created with a maximal charge of 5kg.

We can also notice that the programmed places of decimals and weight unit show up on the screen.

Press " ENTER " ☒↵

Press " ENTER " ☒↵

On this screen, we should enter the division with which the indicator will work. We can choose among the following options: 01, 02, 05, 10, 20, 50.

If we follow the previous example, when we choose 01 we will obtain the division of 0,001 kg.

Press "ENTER" ⊠┘to configure the second rang or to exit from the menu "UNITS". If the model does not have the second rang option, the message will not show (the configuration of the second rang is the same as the configuration of the first rang).

To exit with saving the configuration, select the menu "QUIT", and press "ENTER" ⊠┘.

To continue the configuration of any menu, we should choose it by using the ⊠ ⊠ keys and press "ENTER" to enter it.

3 Menu Si.CAL-01

This menu enables to make a linearity calibration.

You can calibrate the devise from 2 steps in minimum (zero and a charge) up to 10 steps in maximum.

Keep in consideration the Earth gravity. The gravity parameters can be programmed from the menus "G1set" and "G2set" which will be explained further in this document.

As an example, we will calibrate the indicator in three steps: 0 kg, 0,5kg and 1kg.

When the pan is empty press "ENTER" ☒↵

Le screen will be winking while measuring zero.

It will show "S01" to indicate that the measure of zero has been taken and that is ready to take another measure.

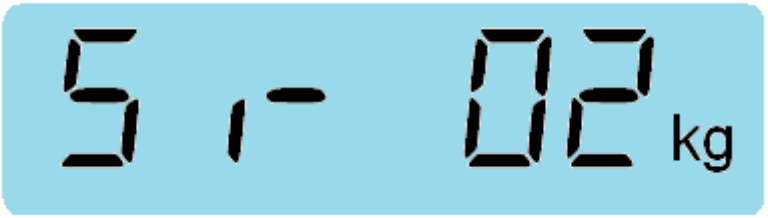
Press " ENTER " ⊠⊣ to program the calibration value.

In this case, the value 0,5 kg has been programmed by using the ⊠ ⊠ and ▲ ▼ keys.

Put the mass of 0,5 kg on the pan, let it stabilize for some seconds in order to stabilize the system and press " ENTER " ⊠⊣

The screen will wink while taking the value of the weight.

When the measuring is over, " Si02 "will show to indicate that it is ready for a third measure.



Press " ENTER " ⊠⊣ to program the third value of calibration.

The value of 1 kg has been programmed by using the ⊠ ⊠ and ▲ ▼ keys.

Put the mass of 1kg on the pan, let it stabilize for some seconds in order to stabilize the system and press " ENTER " ☒↵

The screen will wink while measuring the weight value.

When the measuring is over, " S03 "will show to indicate that it is ready for a forth measure.

We can continue taking calibration values up to 10 in maximum.

To finish the calibration and to go back to the start menu, press the ☒ key.

To exit with saving the configuration, select the menu " QUIT " and press " ENTER " ☒↵.

To continue the configuration of any menu, we should choose it by using the ☒ ☒ keys and press " ENTER " to enter it.

4 Menu CALIB

This menu enables the normal calibration in 2 steps: the zero and one programable charge.

Press " ENTER " ⊠⊣ to see the internal counts.

Attention: the presented value is given as an example and do not need to coincide exactly with the one of your scale.

Press " ENTER " ⊠⊣.

When the pan is empty press " ENTER " ⊠⊣ to calibrate the zero.

The screen will wink while taking the value.

For example, we program the value of 1 kg by using the ☒ ☒ and ▲ ▼keys.

Charge the pan with the same mass as the one which has been programmed and press " ENTER " ☒↵to calibrate.

The screen will wink while taking the value and in the end will exit the menu.

To exit with saving the configuration select the menu "QUIT" ,and press " ENTER " ☒↵.

To continue the configuration of any menu, we should choose it by using the ☒ ☒ keys and press " ENTER " to enter it.

5 Menu FILTER

The FILTER menu must not be modified. It contains a series of internal parameters which depend on the quantity of AD converters and on its type. It can only be adjusted in the manufacture.

6 Menu OIML

The OIML menu has one principal parameter which can have two values:

0 ☒ The indicator or scale **DOES NOT** follow OIML recommendations.
1 ☒ The indicator or scale follows OIML recommendations.

and three sub-parameters:

RS Manuel zero limit.
It adjusts in the percentage 0-99% from the bottom of the scale.
It is the capacity to catch up the zero by pressing [☒ 0 ☒] key.

OR Initial auto zero limit.
It adjusts in the percentage 0-99% from the bottom of the scale.
It is the capacity to catch up the zero by switching on the scale.

OT Zero tracking limit.
It adjusts in the percentage 0-99% of the division [e].
It adjusts automatically the drift of the zero.

An example of the setting up of the OIML 0 menu.

Press " ENTER " ☒↵.

In this mode, the scale or the indicator do not follow the OIML recommendations and the sub-parameters RS, OR or OT can be programmed.

Press " ENTER " ⊠↲.

With this configuration of the RS sub-parameter, the scale or the indicator is capable to absorb the deviation of the zero, 2% of the bottom of the scale. For example, if the bottom of the scale is of 5.000 kg, it might absorb up to 0.100 kg by pressing the [⊠ 0 ⊠] key.

Press " ENTER " ⊠↲.

With this configuration of the OR sub-parameter, the scale or the indicator are capable to start with an initial deviation, from de signal sent by the load cell, of 16% of the bottom of the scale.

Press " ENTER " ⊠↲.

With this configuration of the OT sub-parameter, the scale or the indicator will absorb the drifts from the zero which are inferior or equal to 40% of the division value.

For example, if the scale or the indicator are configured for the division of 0,001 kg = 1 g the zero deviations coming from the drift inferior or equal to 0,4 g will be absorbed.

Press " ENTER " ⊠↵.

To exit with saving the configuration, select " QUIT "menu and press " ENTER " ⊠↵.

Example of setting up the OIML 1 menu.

Start from the OIML menu and press " ENTER " ⊠↵.

With the ▲ ▼ keys, program " 1 " value and press " ENTER " ⊠↵.

In this mode, the scale or the indicator follow the OIML recommendations and the RS, OR or OT sub-parameters CANNOT be programmed.

To exit with saving the configuration, select "QUIT" menu and press "ENTER" ⊠↵.

To continue the configuration of any menu, we should choose it by using the ⊠ ⊠ keys and press "ENTER" to enter it.

7 Menu QUIT

The QUIT menu allows quitting the configuration process with saving the modifications.

To quit the configuration with **saving** select the "QUIT" menu and press "ENTER" ☒↵.

To quit the configuration without **saving** press "U"(esc) key.

8 Menu RESET

The RESET menu eliminates all present values of the configuration and leaves the indicator or the scale with the configuration by default.

ATTENTION! It can lose the configuration data and leave the device unusable. To use the device again, you will have to dispose of a series of the values and recalibrate it.

9 Menu C1/C2

This menu configures the scale or the indicator as an individual platform or double platform.

0 ☒ Device with one platform

1 ☒ Device with two platforms but only one Works, the nº 1.

2 ☒ Device with two platforms working simultaneously.

Attention: if we program the scale or the indicator as double platform [2] and the system does not have the second AD converter, the operation of the indicator or scale might stay blocked.

Press " ENTER " ☒↵.

By using ▲ ▼ keys select one of the possible values 0, 1 or 2 and press " ENTER " ☒↵.

To quit with **saving** the configuration select the " QUIT " menu and press " ENTER " ☒↵.

10 Menu ADC

This menu is composed of two sub-menus. The first one, SR, allows varying the speed of the AD converter. The second one, GN, allows increasing the amplification of the load cell.

Press " ENTER " ☒↲.

There are three possible values for the SR sub-menu: 5, 10 and 20, where 20 is the value which ascribes the highest speed to the AD converter.

With the ▲ ▼ keys you can program any of the three values taking into consideration that: a low speed involves higher stability of the indication, a high speed, on the contrary, involves lower stability of the indication.

Press " ENTER " ☒↲.

There are two possible values for the GN sub-menu: 1 and 2, where 2 is the option when we need to increase the amplification of the signal of the load cell.

With the ▲ ▼ keys we can program any of the two values.

Press " ENTER " ☒↲ to quit the ADC menu.

To quit with saving the configuration, select "QUIT" menu and press "ENTER" ⊠↵.

To continue the configuration of any menu, we should choose it by using the ⊠ ⊠ keys and press "ENTER" to enter it.

11 Menu RST

The RST menu allows seizing the value of the offset of the load cell.
With the 1 value, it resets the offset value by initializing it.

Press " ENTER " ⊠↵.

Set the 1 value with the ▲ ▼keys.

Press " ENTER " ⊠↵.

The indicator will be winking for some seconds while seizing the offset value and then will return to the RST menu.

12 Menu ZERO

The ZERO menu allows adjusting the number of the divisions starting from which it will return to zero.

There can be 6 values set; the 0 means that the function is not acting. The values from 1 to 5 mean the number of divisions starting from which it will return to zero.

Press " ENTER " ☒↲.

With the ▲ ▼ keys you can program any of the 6 values.

In this example the indicator will return to zero even if there are two divisions missing.

Press " ENTER " ☒↲.

Return to the start of the menu.

To quit with saving the configuration, select " QUIT "menu and press " ENTER " ☒↲.

To continue the configuration of any menu, we should choose it by using the ☒ ☒ keys and press " ENTER " to enter it.

13 Menu G1SET

The G1SET menu allows calibrating the scale or the indicator in any place on Earth whereas the scale or the indicator will be used somewhere else, thanks to the G2SET menu, described further on.

Press " ENTER " ☒↵.

You have to enter the gravity value, without decimal point, of the place on Earth where the linearity calibration was made. If this value should be modified, you should proceed to make linearity calibration (Menu Si.CAL-01).

Press " ENTER " ☒↵.

Return to the start of the menu.

To quit with saving the configuration, select " QUIT "menu and press " ENTER " ☒↵.

To continue the configuration of any menu, we should choose it by using the ☒ ☒ keys and press " ENTER " to enter it.

14 Menu G2SET

The G2SET menu allows using the scale in the place which is different from the place where the linearity calibration was made and without having to recalibrate.

Press " ENTER " ☒↵.

You have to enter the gravity value, without the decimal point, of the place on Earth where the scale or the indicator will be used.

Press " ENTER " ☒↵.

Return to the start of the menu.

To quit with saving the configuration, select " QUIT "menu and press " ENTER " ☒↵.

To continue the configuration of any menu, we should choose it by using the ☒ ☒ keys and press " ENTER " to enter it.