Indicator i 30

User manual

This guide is intended for users of indicator i 30.
It allows a quick start of the device. For the electrical connection and installation, refer to the following manuals :

- Wiring block diagram : 04-50-00 DD

- Installation Manual : 04-52-00 MI

Before first use, check the parameters for the application in configuration mode.

Safety

For devices connected through a power outlet, standard NF EN 60 950 calls for the base of this outlet to be installed near the equipment and to be easily accessed. For equipment connected permanently to mains, an easily accessible cut-off device must be included to the permanent installation.

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 Important warning concerning the safety of persons.

 Remark concerning the preservation and proper maintenance of the equipment.

 Note designed to :
- **Facilitate reading the manual;**
- **Implement the equipment optimally.**

Terminology and abbreviations

Menu options or parameters are noted :

- **OPERATOR** / **OPTION 1** / **OPTION 2**... / **PARAMETER**

or

- **INSTALLER** / **OPTION 1** / **OPTION 2**... / **PARAMETER**

In this manual, the functions are all executed in OPERATOR mode, the notations are abbreviated as follows :

- OPTION 1 / OPTION 2... / PARAMETER

Recommendations

For optimum equipment accuracy and preservation :

- Do not subject the weighing instrument (the scale) to shocks or overloads.
- Do not store a load on the weighing instrument ; discharge it as soon as the weighing has been completed.
- Never use solvents or abrasives products for cleaning.

Overall view

■ *Keyboard*

	Function	
⏻	On / Off	Press and hold to turn the indicator on.
⬭ M	Application / Metrology	Toggles between the two operating modes.
MENU + ⏻	Configuration mode	Keep these keys pressed to turn on the power indicator in configuration mode.
ESC	Exhaust	Exit a menu or the entry in progress without taking it into account.
MENU	Menu	Allows entering configuration mode by pressing and holding the power on key.
↵	Confirmation	Entry in a menu or take the current entry into account.
▲ ◀ ▶ ▼	Directional keys	Navigating in the menu or list options. Indication < > in the help area.
→0←	Reset	
→T←	Taring	
B/G	Reminder of gross	

◻ *Navigation principle*

- The navigation keys allow moving through menus and lists of predefined values. They are active when the symbols ‹ › are displayed in zone **3** of the screen (See "Screen", page 5.):

◀ ▶	**1.**	Scroll through the options at the same level (or the possible values).
↵	**2.**	Confirm the selected option (or the selected value).

- In the same case, for the consultation of recorded values :

◀ ▶	Scroll through the displayed information.

- Entering an alphanumeric value :

◀ ▶	**1.**	Reach the previous or next position in the string to enter.
▲ ▼	**2.**	Enter a character : select next or previous character in alphabetical (or numeric) order.

- In case of navigation error :

ESC	Exit a menu, a section or option (up one level).
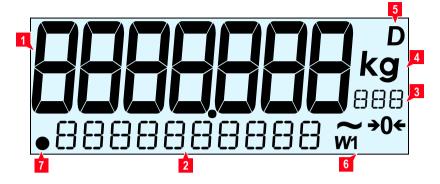
- Reach the backup option (configuration mode) :

ESC	Go back up to the highest configuration menu level to achieve the backup option. Actuate the button repeatedly, if necessary.

■ *Screen*

	Title / Symbol	*Function*
		Use
1.	**Weight areas**	Display digital data : weight, number of pieces, calculated data.
2.	**User area**	Indications to the attention of the user.
3.	**Help area**	- NET indication if tare taken into account. - Addition to unit. - Indication of valid keys. See details below.
4.	**kg g t lb**	Unit.
5.	**D**	- Application mode : Symbol **D** displayed. The displayed weight is not a metrological reference. - Metrological mode No symbol. The displayed weight is not a metrological reference.
6.	**W1 W2**	Measuring range : Range 1 or 2 is active.
	~	The weight is unstable.
	→0←	The weight is in the zero and stable zone.
7.	●	Confirmation of the touch of a button.

◱ *Help area - Detail of the indication of valid keys*

0 - 9	Numeric entry.
0 - Z	Alphanumeric entry.
1 - 6	Numeric entry between two specified values (ex. : between 1 and 6).
< >	Indication of a menu (even if there is only one option).
ESC	Output of a screen showing data in display only.

◱ *Basic parameters*

◱ Language
• PARAMETERS / LANGUAGE

Choose French or English.

◱ Display device
• PARAMETERS / DISPLAY / ECO MODE allows adjusting the self-termination :

ON	Turn off the backlight after 30 seconds of inactivity, weight to zero.
OFF	Not self-extinguishing backlight.

• PARAMETERS / DISPLAY / BRIGHTNESS allows adjusting the backlight intensity : 3 termination levels.
• PARAMETERS / DISPLAY / COLOR allows setting the screen background colour : 7 possible colours.

⚠ **The choice of a colour other than white no longer allows displaying the application mode text in colour.**

◱ Date and time
• PARAMETER / DATE/TIME

Changing this parameter does not result in requesting a backup. It occurs automatically after setting the time.
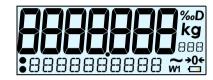
Operator functions

Introduction

The operator functions are available from the moment power is applied to the indicator.

Switching-on

1. The instrument performs a self-test.
   Check the proper operation of the display screen (no defective segments).

2. The software version is displayed.

3. The self-test is completed, the instrument initiates the measurement and it is ready for use.

Reset

The reset function allows ensuring the instrument reset when the load receiver is empty and the weight displayed is not zero, (This function is limited to $\pm \pm 2\%$ of the maximum instrument range from the initial zero in regulated use or to a configuration value outside the legal metrology*).

1. Empty receiver, the weight displayed is different from zero.

```
240 kg D
BRIDGE  i 30
```

2. Select the reset function ( ).

The weight displayed is reset.

```
0 kg D
BRIDGE  i 30   →0←
```

Taring

The taring function allows storing the weight of the load in place on the receiver (container) as the tare value and then get the net weight of the product (displayed weight = current weight - tare). Thus the NET weight is viewed as positive when loading and negative in case of unloading).

1. Place the container on the load receptor.

```
260 kg D
BRIDGE  i 30
```

2. Select the taring function ( ).

The weight displayed is the net weight.

```
0 kg D
        NET
BRIDGE  i 30   →0←
```

Initial reset

This reset can be done when the indicator turns on. To do this, when switching on, the user presses button until the unit starts. This zero is the reference to other reset devices.

◤ *Reminder of gross*

1. The result of a weighing is displayed in net.

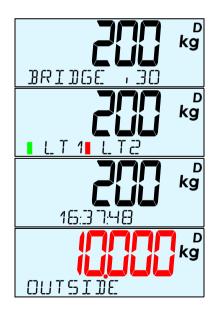
2. Press key [B/G].

The screen changes colour (cyan) and the result is displayed as gross weight for a few seconds.

◤ *Visualization of information*

Press the [◀] and [▶] keys to scroll through the available information.

1. Bridge name,

2. Status of lights,

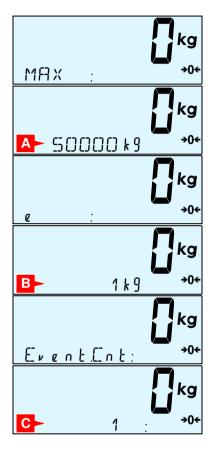**3.** Time,

4. Message from lock.

◻️ *Metrological screen*

The following information are only accessible from the metrology menu (⬭**M**)

1. Press key ▶️ to view the metrological data.

The corresponding information are:

- MAX : Maximum device range (A).
- e : level (B).
- Event.Cnt (C).

Operator Parameter

⬛ *Introduction*

Once in the metrological screen (**M**), press key 🔲 to access the parameterization operator. Then use the key 🔲 and 🔲 keys to access the different functions available.

⬛ *Manually entry of a tare value (preset tare)*

This function allows you to manually enter a tare value for the net weight display from 0 to MAX (0 to cancel the preset tare).

1. Select the preset tare function ℙ Ṱ and confirm it (🔲).

4 180 kg **D**
‹ ›
PT

2. The current value of the tare weight is displayed.

4 180 kg **D**
0-9
0 kg D

3. Enter the new tare value by pressing the arrow keys.

- 🔲 et 🔲 Change the value of the selected digit.

- 🔲 and 🔲 : Move from one digit to another.

4 180 kg **D**
0-9
240 kg D

4. Confirm the new value (🔲).

The value is taken as the tare value. The weighing result is now viewed on the Net.

3 940 kg
NET
T: 0.170 KG

High resolution display

1. Switch to metrology mode (**M**).

$$4.180 \text{ kg} \quad MAX$$

2. Press key 🔲 and scroll through the various functions with the arrow keys.

3. Select the HR function then confirm (🔲).

$$4.180 \text{ kg} \quad HR$$

4. The result is displayed with the precision associated with high resolution during a few seconds in Legal Metrology and remains permanent outside Legal Metrology.

$$4.178 \text{ kg}^{D} \quad MAX$$

Reminder of gross

1. Switch to metrology mode (**M**).

$$3.940 \text{ kg} \quad NET \quad MAX$$

2. Press key 🔲 and scroll through the various functions with the arrow keys.

3. Select the $B-G$ function then confirm (🔲).

$$3.940 \text{ kg} \quad G-N$$

4. The screen changes colour (cyan) and the result is displayed as gross weight for a few seconds in Legal Metrology and is permanent outside Legal Metrology.

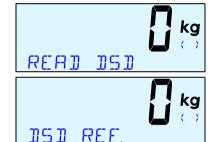$$4.180 \text{ kg}^{D} \quad MAX$$

Consult DSD

1. Switch to metrology mode (M).

	0 kg
MAX :	

2. Press key MENU and scroll through the various functions with the arrow keys.

3. Select the DSD function then confirm (↵).

	0 kg ‹ ›
DSD.	

4. Select the READ DSD function then confirm (↵).

	0 kg ‹ ›
READ DSD	
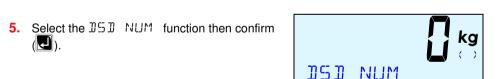
or select function REF. DSD then confirm (↵).
This reference allows identifying a bridge.

	0 kg ‹ ›
DSD REF.	

5. Select the DSD NUM function then confirm (↵).

	0 kg ‹ ›
DSD NUM	

6. Enter the number of the record to see the keys ◀ and ▶ then confirm.

Remark: Enter 0 to display the last recording.

	0 kg 0-9
349	

7. Confirm again to display the information corresponding to the file.

	0 kg ‹ ›
RECORD	

Operator configuration

◻️ *Introduction*

Simultaneously press keys 🔲 + 🔘 at power-on or at restart of the indicator to access the operator configuration.

◻️ *Configuration the parameters*

These parameters are accessible from the configuration menu.

1. Access to the configuration menu.

LOGIN / **OPERATOR** / **APP**.

For MEASUREMENT and PARAMETERS menus, refer to the installation guide (04-52-00 MI).

2. Fill the $BRIDGE$ $NAME$ parameter.

This parameter allows you to assign a name to the bridge of up to 10 characters.

3. Fill the $LOCK$ MSG parameter.

This parameter allows choosing the message to be displayed when the presence threshold is reached and the $LOCK$ entry is active.

4. Fill the $LOCK$ WT parameter.

This parameter is active when the $LOCK$ entry is active:

- YES ⇒ the weight is displayed in red on the screen.
- NO ⇒ the weight is not displayed.

5. Fill the $PRES$ $THRES$ parameter.

The following two parameters are configured by the installer.

6. Fill the $LIGHT$ $1NAME$ parameter.
This parameter allows you to assign a name to the entry light.

7. Fill the $LIGHT$ $2NAME$ parameter.
This parameter allows you to assign a name to the exit light.

▣ *Saving*

When the configuration parameters have been changed, the backup can be done in two ways :

- By going back to the highest level in the configuration menu:
- by pressing key 🔘 ..

The 5AVE option screen is displayed for about 1 s, then the choice whether or not to confirm the modified parameters is proposed.
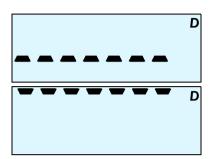

Select NO to return to the configuration menu without saving the modified parameters.

Select YES to return to the configuration menu after saving up the modified parameters.

Error messages

1. Instrument under-loaded.

- Check the load receptor.
- Reset to zero.

2. Instrument overloaded.

- Remove part of the load.

3. Command denied

- Example : Taring with unstable weight

4. Reset denied

The weight limit for this function has been exceeded.

- Remove the load and press the reset key.

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