



All models

*User manual*



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## Document conventions



Present on the equipment, it states to refer to the present manual for further information on the nature of potential dangers and all the precautions to take to prevent such dangers.



Important warning concerning people safety.



Note concerning the preservation and proper equipment maintenance.



Note aiming to facilitate reading the manual and/or optimally implement the equipment.



CE marking stating that the product is compliant with the main requirements of applicable directives. It authorizes free circulation throughout all the European economic area.



Alternative current.



Class II equipment with strengthened isolation.

## Recycling



In compliance with the European Directive concerning electric and electronic equipment waste disposal, this device, including its accessories and batteries must not be disposed of as normal waste. Please dispose of this device according to your local prescriptions in a separate unit specifically aimed at electric and electronic equipment.

## Safety

The CEI 61010-1 norm indicates that for devices connected through a power outlet, said outlet must be installed close to the equipment and easily accessible. The mains cable is used as cut-off device.

Mains voltage must not fluctuate over 10% of its nominal voltage.

Make sure mains connection and the cable type are compliant with the country safety specifications. If the mains voltage and the type of mains cable plug do not meet the current requirements of the country, please contact your PRECIA MOLEN agency.

Any non conventional use of the device can cause damages and represent a danger for the user.

No damage due to the non compliance with safety rules can be attributed to the manufacturer.

## ■ Electromagnetic compatibility

This equipment has been tested and declared compliant with the limits for Class A digital devices, according to European regulations, to Section 15 of FCC rules (U.S. Federal Communication Commission) and to Canadian ICES-003 rules.

These limits aim at providing sufficient protection from interferences when the equipment is used in a commercial environment. If the equipment is used in a residential area, it can cause interferences. Should this happen in these circumstances, the user will have to correct the situation at their own expenses.

## ■ Maintenance

The indicator must be off for maintenance and cleaning operations and if the housing is opened.

Never use solvents or abrasive cleaning products.

Only components accredited by PRECIA-MOLEN can be used to replace faulty components, particularly batteries, so as to ensure the proper functioning of the machine and the user's safety.



**There is an explosion hazard if the battery is replaced by a wrong model. Discard used batteries in compliance with instructions.**

In most cases, repair operations are likely to generate hazardous situations.

Such operations must be asked from PRECIA MOLEN's services, or one of its representative's.

## ■ Environment characteristics

- Temperature range:
  - in operation ..... – 20°C / + 40°C (– 4°F / + 104°F)
  - loading with the battery option ..... 0°C / + 30°C (+ 32°F / + 86°F)
- Relative humidity without condensation ..... 10% / 85%\*
- Transitory high voltage category\*\* ..... II
- Maximum atmospheric pressure ..... 795 hPA\*\*\*
- Use:
  - Outdoors ..... Yes with pollution degree 3
  - Damp location ..... Yes
- Protection index ..... IP 66 according to EN 60529
- Power supply:
  - Voltage ..... 100 - 240 V\*\*\*\* AC
  - Frequency ..... 50 / 60 Hz
  - Maximum consumption ..... 0.2 A

\* For temperatures up to 31°C and linear decrease down to 50% of relative humidity at 40°C.

\*\* Accepts temporary high voltage on the power network.

\*\*\* Equivalent to a 2 000 m altitude.

\*\*\*\* 240 V only for Saudi Arabia.

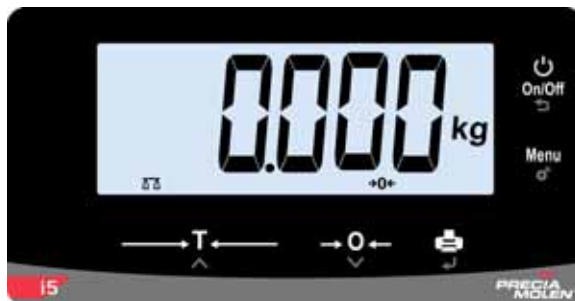
## General description **2**

### Introduction






The i5 indicator offers 3 different use modes:

- the SIMPLE WEIGHING mode,
- the COUNTING mode,
- the ANIMAL WEIGHING mode.






### Use of keyboard



The i5 indicator offers 5 keys:

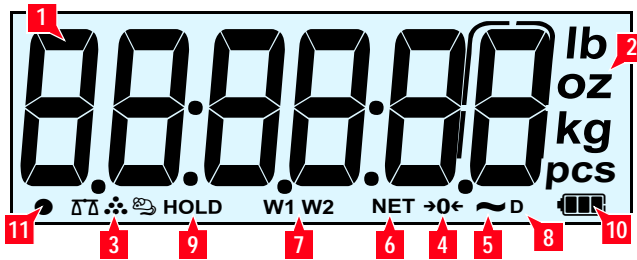
-  On/Off. Hold pressed to switch the indicator on and off.
-  Reset.
-  Tare (NET weighing).
-  Print command.
-  By pressing briefly, access to extra application functions.

To each key is related a second image that defines the features of these keys to navigate into the menus and to enter the calibration values.

-  /  In a menu, previous/following section. To enter a value, increment/decrement the displayed digit.
-  To enter a value, validate the displayed digit. When editing the last digit, validate the parameter.
-  Abort and return to previous level.
-  Hold pressed to access the configuration menu from the use mode.

# i5 indicator - All models


## ■ Presentation of the display screen



1. Main display zone
2. Measurement unit: **lb**, **oz**, **kg**, **g** or **pcs**.
3. Application in progress:  $\Delta\Delta$  (simple weighing),  $\bullet\bullet\bullet$  (counting) or  $\text{🐾}$  (animal weighing).
4. Weight in zero zone and stable.
5. Non stable weight.
6. Weigh displayed NET (weigh with tare).
7. Active measurement range: **W1** or **W2**.
8. Display indicator light of a calculated value.
9. HOLD function in progress indicator light.
10. Battery loading indicator light.
  - Battery loaded at 0 to 10 %
  - Battery loaded at 10 to 30 %
  - Battery loaded at 30 to 60 %
  - Battery loaded at 60 to 100 %
11. Key pressing confirmation indicator light.



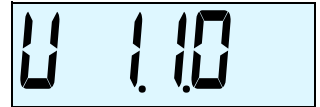
## Switching the indicator on

1. Make sure that the scale plate is empty and press the key  for approx. 3 seconds.

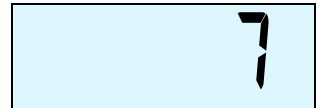
The indicator performs a self-test. Check that all display elements are visible. The software version is displayed and then the metrological counter.



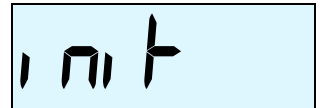
2. Once the self-test over, the software version is being displayed.



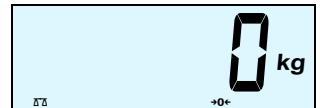
3. Then the metrological counter<sup>(i)</sup>.



4. In case the Bluetooth option has been installed, the message showing the initialisation of this interface is displayed.



5. The indicator is ready for use.



(i) Legal metrology only.

# i5 indicator - All models


## SIMPLE WEIGHING mode

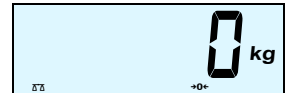
### Initialisation

Select the SIMPLE WEIGHING mode. You can then define the associated parameters (See *USE MODE menu*, page 13).


### Current operations

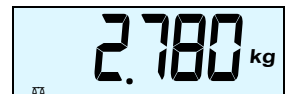
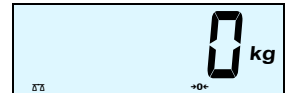
#### Simple weigh

1. The instrument is ready for use.  
The symbol  indicates the SIMPLE WEIGHING use mode.
2. Put the object to be weighed on the receptor. The result is then displayed.





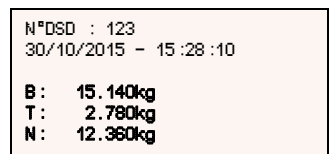
#### Weigh with tare

1. The scale plate is empty.  
The indicator states a null value.
2. Put the container to be calibrated on the plate.  
The weight of the container is displayed.
3. Press the key . The value is back to zero.  
The net weight is then displayed, shown by the **NET** symbol.
4. Fill in the container of the product to be weighed.  
The weigh result is displayed.



#### Ticket printing

 In case the indicator is associated to a printer, pressing the key  will print a ticket.



## Other functions

The other functions can be accessed by briefly pressing the key **Menu**. The desired function is accessible by pressing several times the keys **▼** and **▲** then validate by pressing the key **↵**. To abort without selecting this function, press the key **↵**.

- ▶ **Hr** Validate by pressing the key **↵**. The weight in high resolution is displayed temporarily.
- ▶ **Gross** Validate by pressing the key **↵**. The gross weight is displayed\*.
- ▶ **Pt** Validate by pressing the key **↵** and enter the tare value to use\*\*. The entered value remains valid as long as the user does not perform any manual calibration (key **+T+**) or reset (key **+0+**).
- ▶ **dSd** Looking up a DSD record (See *Other functions*, page 9).

## COUNTING mode

### Initialisation

Select the COUNTING use mode. You can define the associated parameters (See *USE MODE menu*, page 13).

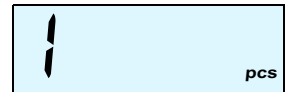
### Sampling

1. Press the key **Menu**.

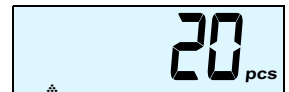
The sampling function is displayed. If not, press the keys **▼** and **▲** until getting this message.



2. Press the key **↵**. Select the number of parts for sampling by pressing the keys **▼** and **▲**.  
Available values are 1, 5, 10, 20, 50 and 100.



3. Place the relevant number of parts and validate by pressing the key **↵**.  
The indicator is ready to count this type of parts.




\* This section is only available when a NET weigh is being performed. To return to net weigh display, you need to go back to this section and validate again.

\*\* This section is not available when the automatic tare function is active.

# i5 indicator - All models





## Weigh operations


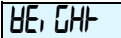

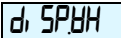

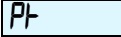




The operative mode is identical to the one of the SIMPLE WEIGHING use mode. Only the result is displayed in number of parts. It also allows to perform operations with or without tare (return).

In case the indicator is associated to a printer, pressing the key  allows to print the ticket.

```
04/11/2015 - 11:44:26
Sample : 20pcs
Unit weight : 0.366kg
G: 24.650kg
T: 2.780kg
N: 21.870kg
Result : 60pcs
```

## Other functions

The other functions can be accessed by briefly pressing the key **Menu**. The desired function is accessible by pressing several times the keys  and  then validate by pressing the key . To abort without selecting this function, press the key .


- ▶  Access to sampling function (See *Sampling*, page 9).
- ▶  Validate by pressing the key . The net weight is displayed temporarily.
- ▶  Validate by pressing the key . The weight value of one part is displayed temporarily.
- ▶  Validate by pressing the key  and enter the tare value to use\*. The entered value remains valid as long as the user does not perform any manual tare (key ) or reset (key .
- ▶  Looking up a DSD record (See *Other functions*, page 11)

\* This section is not available when the automatic tare function is active.

## ANIMAL WEIGHING mode


### Weigh operations

Select the ANIMAL WEIGHING use mode. You can define the associated parameters (See *USE MODE menu*, page 13).


The operative mode is identical to the one associated to the SIMPLE WEIGHING use mode. Only the presentation of the ticket obtained by pressing the key  will be different.

DSD N° : 141
10/11/2015 - 09 :53 :22
T : 4.650kg
<b>Result : 19.940kg</b>

### Other functions


The other functions are accessible by briefly pressing the key . They are identical to the one related to simple weighing (See *Other functions*, page 11).



## DSD record detail


Records allow comparing, for example in case of a litigation suite the information printed on the customer ticket and the ones in the indicator. To look up a DSD record, press the key  and select the *d5d* function.




Example of ticket to check:

DSD N° : 123
30/10/2015 - 15 :28 :10
G : 15.140kg
T : 2.780kg
N : 12.360kg




▶  Looking a DSD record

▶   Entering the number of the record to look up

▶   then  n° of record being looked up



▶   then  gross weight value

▶   then  tare value

▶   then  net weight value

▶   then  record date

▶   then  record time

▶   Back to DSD menu

### ■ Introduction

The configuration mode allows the user to define:

- the indicator's use mode,
- the optional features associated to the various use modes,
- some general parameters.

### ■ Access to configuration mode

1. The indicator is on.

Press the key **Menu** a few seconds until the access code request is displayed.

2. Enter the 4-character password.

The general configuration menu is available.

### ■ General menu

- ▶ Selecting the indicator's use mode
- ▶ Indicator's general parameters
- ▶ Adjustment of indicator's metrological parameters
- ▶ End of the procedure and back to use mode

## ■ Detail of configuration menus

### ■ USE MODE menu

- ▶ **APP** Selecting the use mode
  - ▶ **SIMPLE** Selecting the SIMPLE WEIGHING mode
    - ▶▶ **THRES** Weigh validation threshold. Below this value, the weigh cannot be validated (key **ESC** inoperative).
      - ◇ 000000 Threshold value between 0 and Max
    - ▶▶ **AutoT** Activation/deactivation of the automatic tare function.
      - ▶▶▶ **EnABLE** Activation of the automatic tare function. The calibration will be automatic, without pressing the key **ST**, when a weight between minimum and maximum values is detected on the receptor.
        - ▶▶▶▶ **Min** Minimum function triggering value
          - ◇ 000000 Digital value between 0 and Max
        - ▶▶▶▶ **MAX** Maximum function triggering value
          - ◇ 000000 Digital value between Min and Max
      - ▶▶▶▶ **diSABLE** Deactivation of automatic tare function.
    - ▶▶ **Hold** Activation/deactivation of HOLD function. This function allows temporarily maintaining the display of weigh results.
      - ▶▶▶ **EnABLE** Activation of HOLD function.
        - ▶▶▶▶ **TEMPo** Time to hold the result\*
          - ◇ 5 5 seconds
          - ◇ 10 10 seconds
        - ▶▶▶▶ **biP** Emission of a beep
          - ◇ YES With beep
          - ◇ no No beep
      - ▶▶▶▶ **diSABLE** Deactivation of HOLD function.
  - ▶▶ **Count.** Selection of COUNTING mode. The COUNTING mode offers the same parameters that the SIMPLE WEIGHING mode
  - ▶▶ **ANIMAL** Selection of ANIMAL mode
    - ▶▶▶ **THRES** Procedure identical to SIMPLE WEIGHING function.
    - ▶▶▶ **AutoT** Procedure identical to SIMPLE WEIGHING function.
    - ▶▶▶ **inStAb** Movement of animals to be weighed
      - ◇ HiGH Strong
      - ◇ Low Weak
      - ◇ MEDiUM Medium

\* This section is only viewed in case of Not Legal for Trade use. For all other uses, this time is set at 5 seconds.

## GENERAL PARAMETERS menu

### PARAM

- ▶ **LANGUAGE** Selecting the language of the messages
  - ◊ **FRANCE** French
  - ◊ **ENGL, 5** English
- ▶ **DATE** Format and modification of the date and time
  - ▶▶ **FORMAT** Selecting the date format
    - ◊ **ddMMAA** Day/month/year format
    - ◊ **MMddAA** Month/day/year format
  - ▶▶ **DATE** Modification of day date
    - ◊ **28.10.15** Entry of date in the chosen format
  - ▶▶ **H, ME** Modification of time
    - ◊ **16:3 134** Entry of time (hours/minutes/seconds)
- ▶ **BACKL.** Adjustment of backlighting intensity
  - ◊ **H, GH** Strong
  - ◊ **MEd, uñ** Medium
  - ◊ **LoB** Low
  - ◊ **oFF** No backlighting
- ▶ **ECo** Automatic stop in case of non use of the indicator for approx. 60 minutes.
  - ◊ **YES** Automatic stop active
  - ◊ **no** Automatic stop inactive
- ▶ **KEYboAR.** Time-out required to validate the pressing of a key.
  - ◊ **oFF** No time-out
  - ◊ **LoB** Time-out of 250 ms
  - ◊ **MEd, uñ** Time-out of 500 ms
  - ◊ **H, GH** Time-out of 750 ms
- ▶ **b, P** Adjustment of sound volume (pressing of key)
  - ◊ **H, GH** Strong
  - ◊ **MEd, uñ** Medium
  - ◊ **LoB** Low
  - ◊ **oFF** No sound
- ▶ **Coñ** Configuration of serial link.
- ▶ **BLuEtO** Configuration of Bluetooth connection\*.

These two last sections have been defined during the installation. It is recommended not to modify these parameters. If required, please contact your engineer.

\* This section is only displayed when the Bluetooth option has been installed.



## ■ METROLOGICAL PARAMETERS menu

### ▶ MEASur

#### ▶> INSTAL Use parameters

- ▶▶▶ ZERo T Action limit of the user zero function (key **→0←**)
  - ◇ 00 00 to 99% (limited at 2% in Legal Metrology)
- ▶▶▶ ZERo S Tracking zero device. Stability of weight at 0, unloaded scale within a  $\pm 2\%$  limit.
  - ◇ G P n Function active in gross and net.
  - ◇ GROSS Function active in gross only.
  - ◇ d, SAbL Function deactivated.
- ▶▶▶ A ZERo Automatic reset when the gross weight is stable at 0 within the  $\pm 2\%$  limit.
  - ▶▶▶ ACT, UE Activation/deactivation of the automatic zero function.
    - ◇ au Active function.
    - ◇ non Deactivated function.
  - ▶▶▶ TEnPo Time-out of function implementation.
    - ◇ 05000 0 to 99999 ms (5 s in Legal metrology).
- ▶▶▶ i. ZERo Initial reset.
  - ▶▶▶ Auto Automation of initial zero.
    - ◇ au Automatic initial zero when switching on.
    - ◇ non Initial zero manual by pressing the key **→T←** during the display test at switching on.
  - ▶▶▶ LBrL, n Lower limit for initial reset.
    - ◇ 05 0 to - 100% (limited at 20% in Legal for trade use).
  - ▶▶▶ uPrL, n Upper limit for initial reset.
    - ◇ 05 0 to 100% (limited at 15% in Legal for trade use).
- ▶▶▶ FilTEr Filtering adjustment (reduction of outdoor disturbances).
  - ◇ VERyH, Very strong.
  - ◇ H, GH Strong.
  - ◇ nEd, uN Medium.
  - ◇ LoB Low.
  - ◇ Auto Automatic filtering. The message **PAF, En** is temporarily displayed, while the indicator defines the most adapted value.
- ▶▶▶ SAb, Stability adjustment
  - ◇ VERyH, Very strong.
  - ◇ H, GH Strong.
  - ◇ nEd, uN Medium.
  - ◇ LoB Low.

# i5 indicator - All models

## ■ Modification of OPERATOR's password

The indicator is on.

Press the key **Menu** for a few seconds until the message **Code** is displayed. This message corresponds to the access code request.

- ▶ **Code** Entry of password and access to the configuration menu
- ▶ **NEWPAS** Password modification section
  - ▶▶ **OPERAT** Operator's password\*
    - ▶▶▶ **old** Old password request
      - ◇ 0000 Entry of old password
    - ▶▶▶▶ **new** New password request
      - ◇ 0000 Entry of new password
    - ▶▶▶▶▶ **Conf.** New password confirmation request
      - ◇ 0000 Entry of new password
  - ▶▶▶▶▶ **INSTALL** Engineer's password\*\*.
  - ▶▶▶▶▶ **rstPAS** Reset password to factory settings\*\*.
  - ▶▶▶▶▶ **quit** End of procedure and return to use mode.

## ■ Saving modifications

When it is necessary to save modifications, the indicator asks so.

1. A temporary message is displayed offering to save modifications.

**SAVE?**

2. Choose to save the modifications or not by pressing the key **▼** or the key **▲**.

**YES**

3. Validate by pressing the key **↵**.

**APP**

The display return to the previous menu. You can make further modifications or quit the configuration.

\* The operator's password as configured in factory is 0000.

\*\* Strictly reserved to the engineer.



