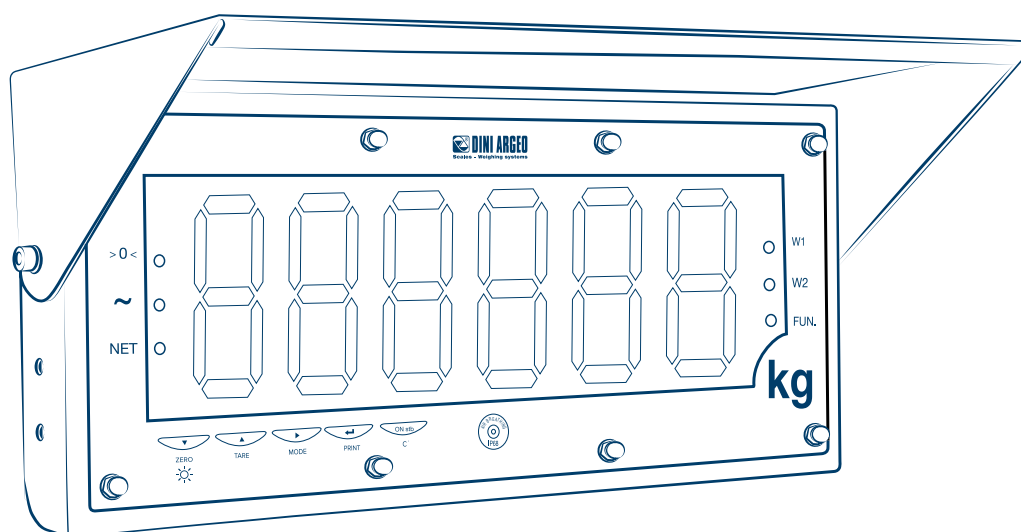# DGT100

Digital weight indicator with 4 channels

USER MANUAL | **ENGLISH**

For DGT100BC, DGT100AN and DGT100PB with firmware release minimum 08.03

Contents

DINI ARGEO
Scales - Weighing systems
A RICE LAKE WEIGHING SYSTEMS COMPANY

Introduction

Dear Customer,
Thank you for purchasing a DINI ARGEO product.

This manual contains all the instructions for a correct installation and commissioning of the DGT100 4-channel digital weight indicator.
While thanking you for purchasing this product, we would like to draw your attention to some aspects of this manual.

This booklet provides useful information for the correct operation and maintenance of the scale to which it refers; it is therefore essential to pay the greatest attention to all those paragraphs that illustrate the simplest and safest way to operate.

It is recommended that you carefully follow the instructions for programming the weight indicator; performing actions not indicated in this manual could compromise the proper functioning of the scale.

The utmost care has been taken in compiling this manual, but reports of any inaccuracies are always welcome.

The instrument is covered by warranty and MUST NOT BE TAMPERED WITH BY THE USER under any circumstances.
Any attempt at repair or modification may expose the user to the danger of electric shock and voids any warranty conditions, relieving the Manufacturer from all liability.

Any problem with the product must be reported to the manufacturer or to the retailer where it was purchased.
In any case, always TURN OFF THE POWER SUPPLY before any installation or repair operation.

Installation requirements

Observe the following conditions for correct installation of the indicator and of the load receiver:

- Flat, level support surface.
- Stability and absence of vibrations.
- Absence of aggressive dusts and vapours.
- Absence of draughts.
- Make sure that the platform is levelled or that the load cells are evenly supported.
- Moderate temperature and humidity (15°C - 30°C and 40% - 70%).
- Do not install in an environment where there is a risk of explosion.
- All indicator connections must be made in accordance with applicable regulations in the area and environment of installation. Observe the electrical precautions listed in the section "**Electrical precautions**".
- Ensure that it is correctly earthed, see the relevant section "**Earthing of the system**".
- Do not perform welding when the load cells have already been installed.
- If necessary, use watertight sheaths and fittings to protect the load cell cables.
- Any junction boxes must be watertight.
- Anything not expressly described in this manual constitutes improper use of the equipment.

Electrical precautions

- Use a regulated mains supply within ± 10% of the rated voltage.
- The electrical protections *(fuses, etc.)* are the responsibility of the installer.
- Observe the recommended minimum distances between cables of different categories **(see table on page 10)**.
- The following cables must comply with the maximum permissible lengths **(see table on page 10)**, they must be shielded and must be inserted alone in metal conduits or pipes:
  - the load cell extension cables;

  - the signal amplifier cables;

  - the cables for connecting the serial ports;

  - the analog output cables.
- The cell or amplifier cables must have an independent input in the electrical panel. They must be connected (if possible) directly to the terminal block of the indicator without passing through the conduit with other cables.
- Fit "RC" filters:
  - on the contactor coils;

  - on the solenoid valve coils;

  - on all devices that produce electrical interference.
- If condensation can occur inside the weight indicator, it is advisable to keep the equipment powered at all times.
- Connections to load cells and any external device must be as short as possible.
- The cable ends (connectors, leads, terminals, etc.) must be installed correctly; the cable shielding must be kept intact until close to the connection point.
- If the indicator is placed inside an electrical panel, a shielded cable must also be used for the power supply.

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Optimized layout for A4 print

RECOMMENDED DISTANCES AND CABLE CLASSIFICATION

	Category I	Category II	Category III	Category IV
Distance	≥ 100 mm ≥ 200 mm ≥ 500 mm	≥ 100 mm ≥ 500 mm	≥ 500 mm	
Classification	Fieldbus, LAN network (PROFIBUS, Ethernet, Devicenet...). Shielded data cables (RS232...). Shielded cables for analog digital signals < 25 V (sensors, load cells...). Low voltage power supply cables (< 60 V). Coaxial cables.	DC supply cables with voltage > 60 V and < 400 V. AC supply cables with voltage > 25 V and < 400 V.	Power supply cables with voltage > 400 V. Telephone cables.	Any cable subject to lightning danger.

MAXIMUM ALLOWED LENGTHS

Load cell	RS232	RS485	Analog output
50 metres with 6 x 0.25 mm² cable; 100 metres with 6 x 0.5 mm² cable.	15 m with baud rate up to 19200.	1200 m with shielded 2 x 24 AWG twisted pair with outer braid + aluminium strip.	**CURRENT**: 100 metres with 2 x 0.25 mm² cable; 150 metres with 2 x 0.5 mm² cable; 300 metres with 2 x 1 mm² cable. **VOLTAGE**: 50 metres with 2 x 0.25 mm² cable; 75 metres with 2 x 0.5 mm² cable; 150 metres with 2 x 1 mm² cable.

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Earthing of the system

For correct earthing and optimal system operation, the load cells, junction box, if any, and weighing structure must be earthed.

LOAD CELLS AND JUNCTION BOX
The connection must be made by connecting the earth cables to the earth bar (cables that must have a cross-section of at least 16 mm^2); finally, connect the earth bar to the earth post with a cable having a cross-section of at least 50 mm^2.

EXAMPLES:

- If the load cells are connected to the indicator through a junction box, the cable shield from the indicator and the cell cable shields must be connected to the earth socket of the junction box (refer to the junction box manual) and the junction box must be earthed using a copper cable with a cross-section of not less than 16 mm^2.
- If the load cells are connected directly to the indicator (without using the junction box), the cell cable shields must be connected to the earthing point (or earth bar).
- If the weighing system involves large and/or outdoor structures (weighbridges, silos, etc.) and the distance between the junction box and the weight indicator is greater than 10 m, connect the cell cable shields to the earth socket in the junction box.

WEIGHING STRUCTURE
Earth the weighing structure and/or any unconnected structures (e.g. silos that release material onto the weighing structure) using cables with a cross-section of not less than 16 mm^2.
Also connect the upper part with the lower part of each cell by means of a copper braid with a cross-section not less than 16 mm^2 *(refer to the* **earthing examples on page 12 and page 13***).

SERIAL CABLES AND CONNECTED INSTRUMENTS
Connect the serial cable shield to the earthing point (or earth bar) inside the panel. To avoid any undesired effects, the earth reference of the connection cable, power supply and indicator must be at the same potential.

---

i

GENERAL NOTES:

- All earth cables must be of suitable length, so as to obtain an overall resistance of the earthing system of less than 1 Ω.

- If the weighing system involves large and/or outdoor structures (weighbridges, silos, etc.):
  - the earth connection must be made by connecting the earth cables to an earth bar and the earth bar to the earth post with a cable having a cross-section of not less than 50 mm^2;
  - the thickness of the cables must be greater (50 mm^2 instead of 16 mm^2 and 100 mm^2 instead of 50 mm^2), because the voltages at stake are greater (e.g. lightning);
  - the earth post must be placed at a distance of at least 10 m from the structure.

- If the load receiver is more than 10 m from the indicator, we recommend using the SENSE line and load cells equipped with a (SENSE) compensation circuit.

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Optimised layout for A4 print

EXAMPLE OF EARTHING OF A WEIGHBRIDGE

Weight indicator

Junction box placed on
the side wall of the pit

Load cell

Weighbridge

Earth cables
Ø 8 - sec. 50 mm²
Ø 11.3 - sec. 100 mm²

Drilled copper plate positioned
on the side wall

Weighbridge

Load cell bypass jumper

Earth post positioned under or near the weighbridge

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EXAMPLE OF EARTHING OF A SILO

Protective earth
bypass for the
load cell

Load cell

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Technical features

POWER SUPPLY	12 - 24 Vdc LPS or with class 2 power supply.
MAXIMUM ABSORPTION (without load cells)	DGT100: 100 mA at 12 V / 70 mA at 24 V (2 W); DGT100AN: 185 mA at 12 V / 90 mA at 24 V (2.5 W); DGT100PB: 410 mA at 12 V; 220 mA at 24 V (5 W).
OPERATING TEMPERATURE	From -15°C to +40°C.
DISPLAY DIVISIONS	10000e, 2 x 3000e for legal weighing, expandable up to 800,000 for internal use (with a minimum cell signal of 1.6 mV/V).
SAMPLING SPEED	Up to 400 conv. / sec.
MINIMUM VOLTAGE PER DIVISION	0.3 µV *(approved instrument)*; 0.03 µV *(non-approved instrument)*.
COUNTING RESOLUTION	1,500,000 points (with input signal 3 mV/V).
DISPLAY	6-digit, 100 mm high, with very efficient SMD LEDs (software adjustment of the brightness intensity); visible from over 25 m, with viewing angle up to 120° and with power up to 750 mcd.
SIGNALS	6 status indicator LED lights.
KEYPAD	5 keys.
TARE FUNCTION	Subtraction possible over the entire range.
LOAD CELL POWER SUPPLY	5 Vdc ± 5%, 120 mA (max 8 cells of 350 Ω).
LOAD CELL CONNECTION	6 wires (CELL1) with sense, 4 wires (CELLS 2, 3, 4).
CONNECTABLE CELLS	Up to 8 350 Ω cells.
CASE	IP68 AISI 304 stainless steel, complete of wall fixing bracket.
SERIAL OUTPUTS	1 RS485 bidirectional port; 1 configurable RS232 bidirectional port for connection to printer; 1 PROFIBUS port (DGT100PB* version); * *Fieldbus models are not equipped with port 485.*
OUTPUTS / INPUTS	2 fotomosfet outputs NO or NC, configurable as programmable weight thresholds: 48 Vac 0.15 A max (or 60 Vdc 0.15 A max); 2 configurable inputs (optocouplers): 12 - 48 Vdc; Input reading and output update time: 1 msec; Opto-isolated analog output with 16 bits, optionally 4 - 20 mA, 0 - 5 Vdc or 0 - 10 Vdc (DGT100AN version). The maximum applicable resistance on the current output is 350 Ω while the minimum applicable resistance on the voltage output is 10 kΩ.
LOAD CELL SENSITIVITY	Maximum sensitivity of the connectable load cells: 6 mV/V.
FIELDBUS UPDATE RATES	Up to 16 Hz.

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Load cell installation

After carrying out the instructions for the platform or load receiver, the shielded cable from the cell(s) must be properly connected to the terminal block(s) of the indicator (from CELL1 to CELL4; see section "**Wiring diagrams**").

The indicator has one channel (CELL1) for 6-wire connection to load cells (using the SENSE), while for the remaining channels (CELL2, CELL3, CELL4) only 4-wire connection is allowed.
The SENSE allows you to compensate for any voltage drop on the section of cable connecting the indicator to the load receiver.
It is especially useful when the distance between the indicator and the load receiver is more than 10 metres.
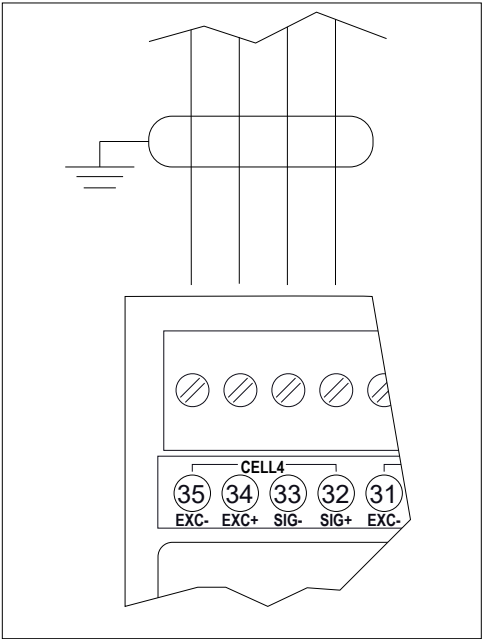
4-WIRE CONNECTION
CELL2 / CELL3 / CELL4
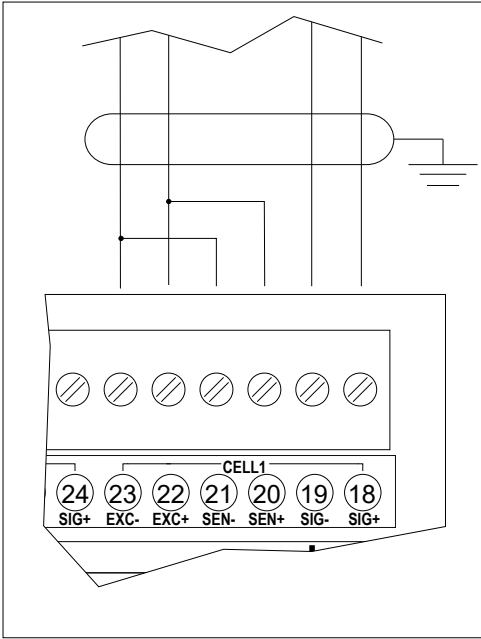
4-WIRE CONNECTION
CELL1
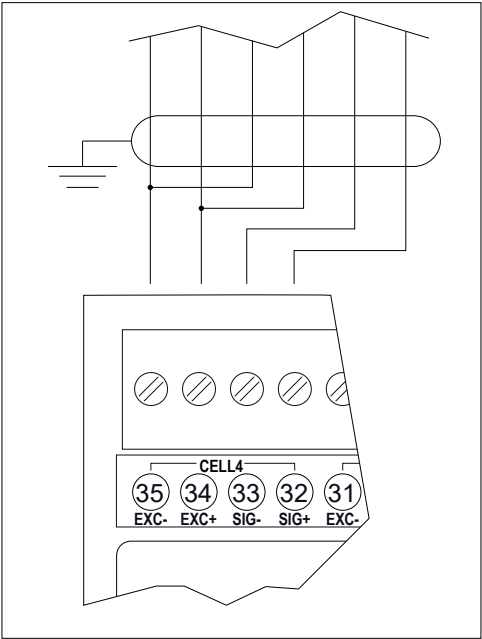
6-WIRE CONNECTION
CELL2 / CELL3 / CELL4
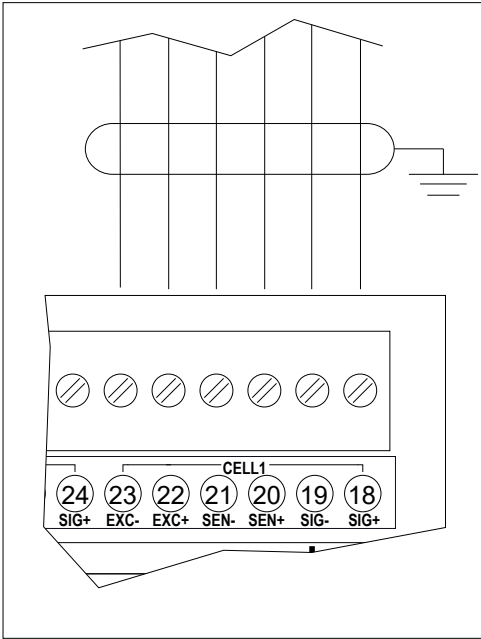
6-WIRE CONNECTION
CELL1

DGT100BC

Optimized layout for A4 print.

LOAD CELL 2, 3, 4

LOAD CELL 1

EXC - EXC + SIG - SIG +

EXC - EXC + REF - REF + SIG - SIG +

(35) (34) (33) (32) (31) (30) (29) (28) (27) (26) (25) (24) (23) (22) (21) (20) (19) (18)

LOAD CELL 4   LOAD CELL 3   LOAD CELL 2   LOAD CELL 1

Internal use

J1   RS485   RS232

M

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17)

12 / 24 Vdc   COM IN 1 IN 2   RL1 RL2 COM   A(+) B(-)   TX RX GND

DGT100AN

LOAD CELL 2, 3, 4

LOAD CELL 1

EXC - 35
EXC + 34
SIG - 33
SIG + 32

LOAD CELL 4

31 30 29 28

LOAD CELL 3

27 26 25 24

LOAD CELL 2

EXC - 23
EXC + 22
REF - 21
REF + 20
SIG - 19
SIG + 18

LOAD CELL 1

Internal use

J1

ANALOG

RS485

RS232

1 +
2 -
12 / 24 Vdc

3 COM
4 IN 1
5 IN 2

6 RL1
7 RL2
8 COM

9 I+
10 I-
11 V+
12 V-

13 A(+)
14 B(-)

15 TX
16 RX
17 GND

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DGT100PB

LOAD CELL 2, 3, 4

LOAD CELL 1

EXC -
EXC +
SIG -
SIG +

EXC -
EXC +
REF -
REF +
SIG -
SIG +

35 34 33 32   31 30 29 28   27 26 25 24   23 22 21 20 19 18

LOAD CELL 4   LOAD CELL 3   LOAD CELL 2   LOAD CELL 1

PROFIBUS
PORT

Internal use

J1

M

RS232

1 2   3 4 5   6 7 8   15 16 17

COM
IN 1
IN 2

RL1
RL2
COM

TX
RX
GND

12 / 24 Vdc

+ -

Optimized layout for A4 print.

Symbol	Description
▼	Semi-automatic zeroing. Decreases the selected digit.
▲	Semi-automatic tare. Increases the selected digit.
▶	Activates the function. Selects the digit to be changed. Prolonged pressure allows you to select the active scale (only in MODE 3 "TRANSM").
↵	Confirms a value. Prints / Transmits data.
C	Turning off the indicator.

Symbol	Description
→0←	Gross weight on zero.
~	Unstable weight.
NET	A tare is active.
FUN.	A special function is active.
W1	Output 1 is active.
W2	Output 2 is active.

Advanced programming menu

The advanced menu contains all the indicator configuration parameters for the most advanced adjustments.

Access to the menu and saving the changes

1. Reboot the indicator.
2. Press the ▲ key when the display shows *888888*.

ℹ️

HOW TO EXIT THE SETUP AND SAVE CHANGES

1. Press **C** several times, until the display shows "*SAVE?*".
2. Press ↵ to save or **C** to exit without saving.

Function of the keys in the menu
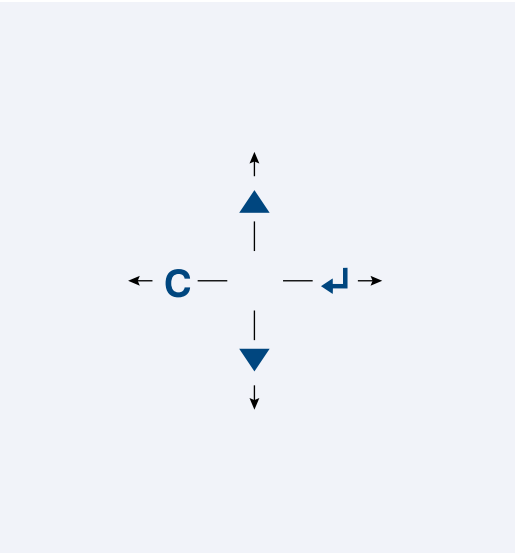
▲	Previous parameter.
▼	Next parameter.
↵	Access the parameter / confirm setting.
C	Exit a parameter (without saving).

FUNCTION OF THE KEYS WHEN ENTERING NUMBERS

▲	Increases the selected digit.
▼	Decreases the selected digit.
▶	Selects the next digit.
↵	Confirms the value.
C	Resets the value. If pressed again, exits entering.

ℹ️

In the menu description on the following pages **the ▼ symbol indicates repeated pressing of the ▼ key until the parameter** indicated is reached.

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Block diagram of the menu

`888888` ▲ **A** `tYPE` — Mode of use **(page 23)**.

▼

B `F.ModE` ↵ **1** `Funct` — Operating mode **(page 40)**.

▼

2 `SCr.SAV` — Screen saver **(page 58)**.

▼

3 `ir.ConF` — Remote control configuration **(page 59)**.

▼

4 `rEACt` — Reactivating printing **(page 48)**.

▼

5 `L.int` — Backlight intensity **(page 58)**.

▼

6 `CLoCR` — Date and time **(page 57)**.

▼

7 `tArE` — Tare **(page 37)**.

▼

8 `AutoFF` — Auto switch-off **(page 59)**.

▼

9 `rS.2Ero` — Zero restore **(page 36)**.

C `SEtuP` ↵ **1** `ConFiG` ↵ **1** `nChAn`   ✱

...

▼

2 `dSP.rF` — Display updating frequency **(page 34)**.

▼

3 `SEriAL` ↵ **1** `PC.SEL` — Selection of the PC serial port **(page 45)**.

▼

2 `CoM.Prn` — Printer port configuration **(page 46)**.

▼

3 `CoM.PC` — PC port configuration **(page 48)**.

▼

4 `ini.AL` — Alibi memory initialisation **(page 39)**.

▼

5 `inPutS` ↵ **1** `inP.01`

▼

2 `inP.02` — Digital inputs **(page 41)**.

▼

6 `outPut` ↵ **1** `out.01`

▼

2 `out.02` — Digital outputs **(page 42)**.

▼

7 `An.out` — Analog output **(page 43)**.

▼

8 `dEFAu` — Restore factory settings **(page 57)**.

D `diAG` — Diagnostics **(page 55)**.

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

USER_MAN_ENG_DGT100_V8

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Optimized layout for A4 print

✱ Full `ConF iG` ↵ `SEtuP` `NEnu` is displayed.

`C` `SEtuP` ↵ **1** `ConF iG` ↵ **1** `nChAn` — Number of channels used. Calibration (**page 25 / 26 / 27 / 29**).

▼

2 `ChAn` — Channel to be configured. Calibration (**page 26 / 29**).

▼

3 `F iLt.50`

▼

4 `PArAN` ↵ **1** `StAb iL` — Filter (**page 33**).

▼

2 `Auto-0`

▼

3 `0-PErC` } Zero parameters (**page 35**).

▼

4 `0.trACh`

▼

5 `d iU.Stb` — Stability divisions (**page 33**).

5 `GrAU` ↵ **1** `H.HHHHH` — Gravity of calibration zone / use (**page 34**).

▼

6 `CAL ib` ↵ **1** `dEC i`

▼

2 `u.N.`

▼

3 `d iU` } Calibration parameters

▼

4 `rAnGE1`

▼

5 `rAnGE2`

▼

6 `CAL ib.P` — Real calibration with sample weights (**page 27**).

▼

7 `thEo.CA` — Theoretical calibration (**page 25**).

▼

8 `NAn.CAL` — Manual calibration (**page 32**).

7 `0.CAL ib` — Zero calibration (**page 32**).

Complete menu on pages **24 - 25**

MENU ACCESS:

`8888888` ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the `C` *key several times, until the display shows* `SAUE?`. *Press the* ↵ *key to confirm.*

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| A | $\mathsf{t YPE}$ | ↵ | 1 | $\mathsf{dEP.Ch}$ | | Smart junction box mode. |

▼

| 2 | $\mathsf{ind.Ch}$ | ⚙ | 1 scale mode. |

▼

| 3 | trAnSN | | 4 scale mode. |

Mode 1 "DEP.CH"

Allows you to connect the load cells (from 2 to 4) directly and to equalise them.

Cell 1   Cell 2

Cell 3   Cell 4
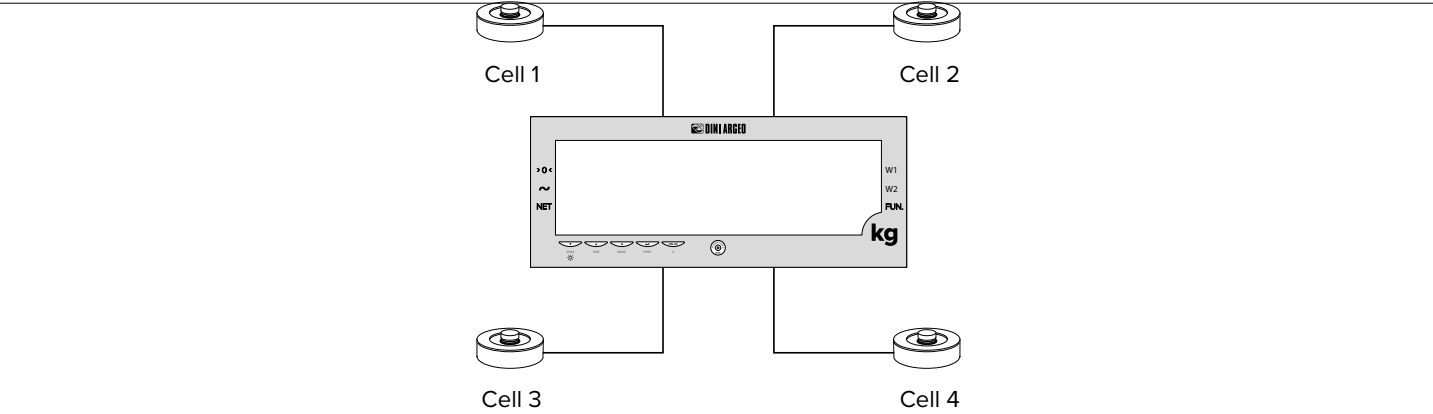
Mode 2 "IND.CH"

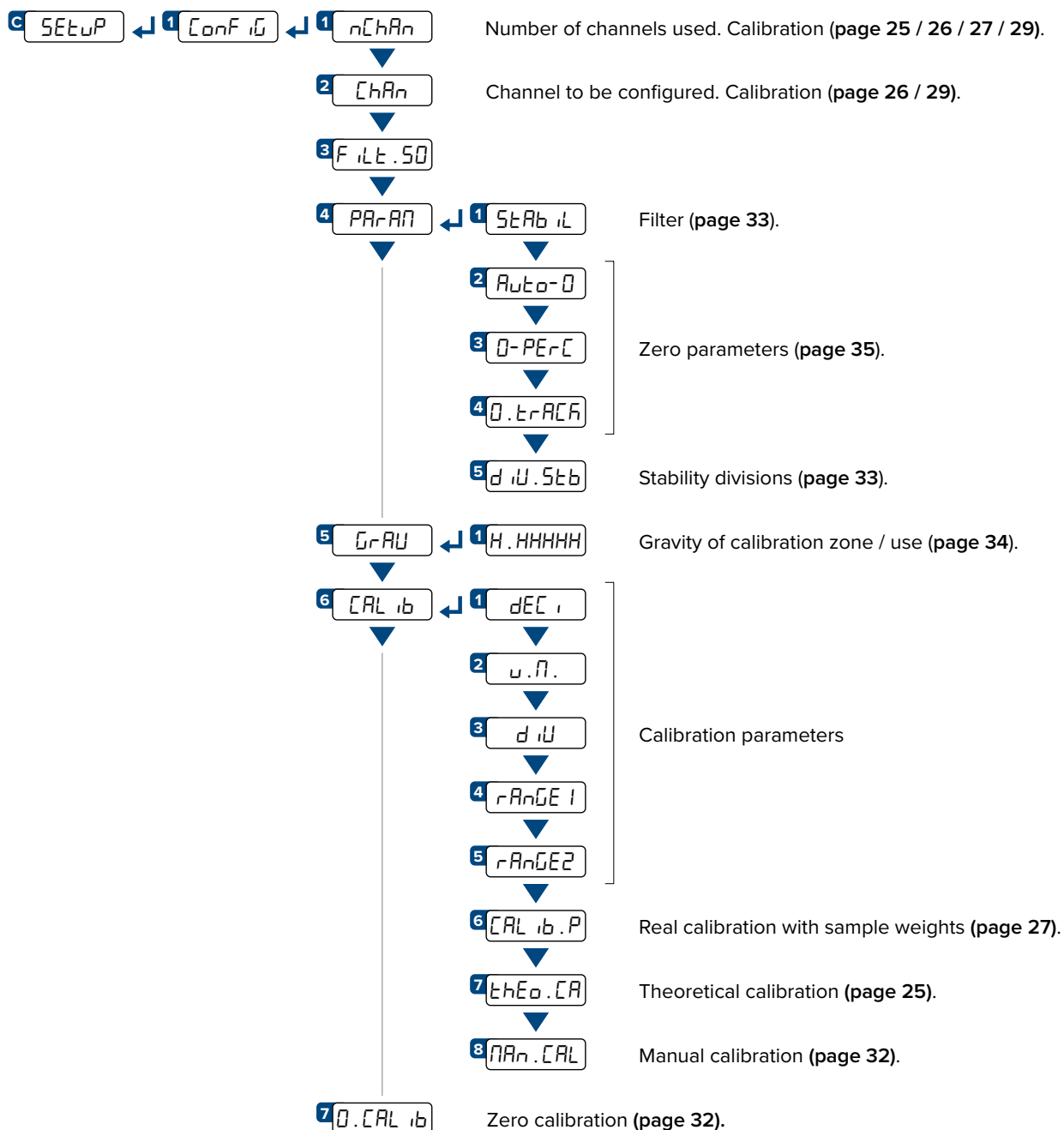Allows you to connect a single cell or a multi-cell scale with a junction box.
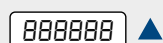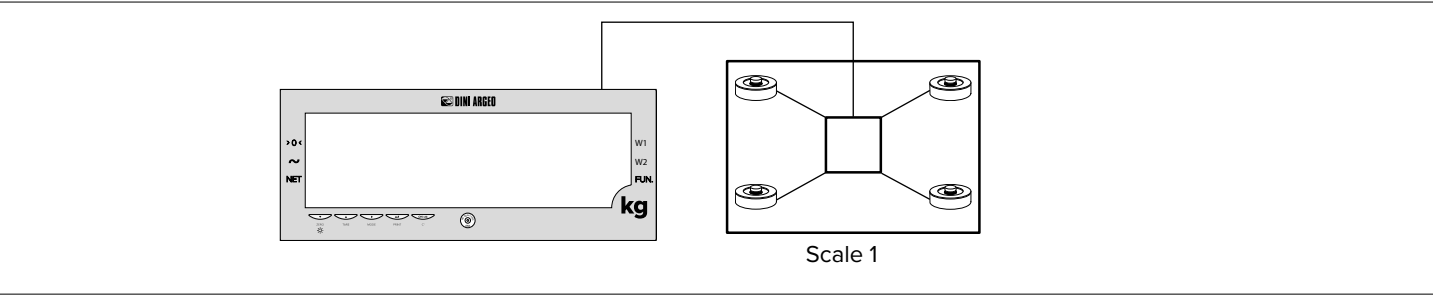

Scale 1

LEGEND:

▼ Indicates repeated pressing of the ▼ key.

👁 Parameter visible only under certain conditions.

🔒 Parameter or menu subject to approval.

⚙ Default value of the parameter.

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Scales - Weighing systems

Optimized layout for A4 print

Mode 3 "TRANSM"

Allows you to manage up to 4 independent scales.
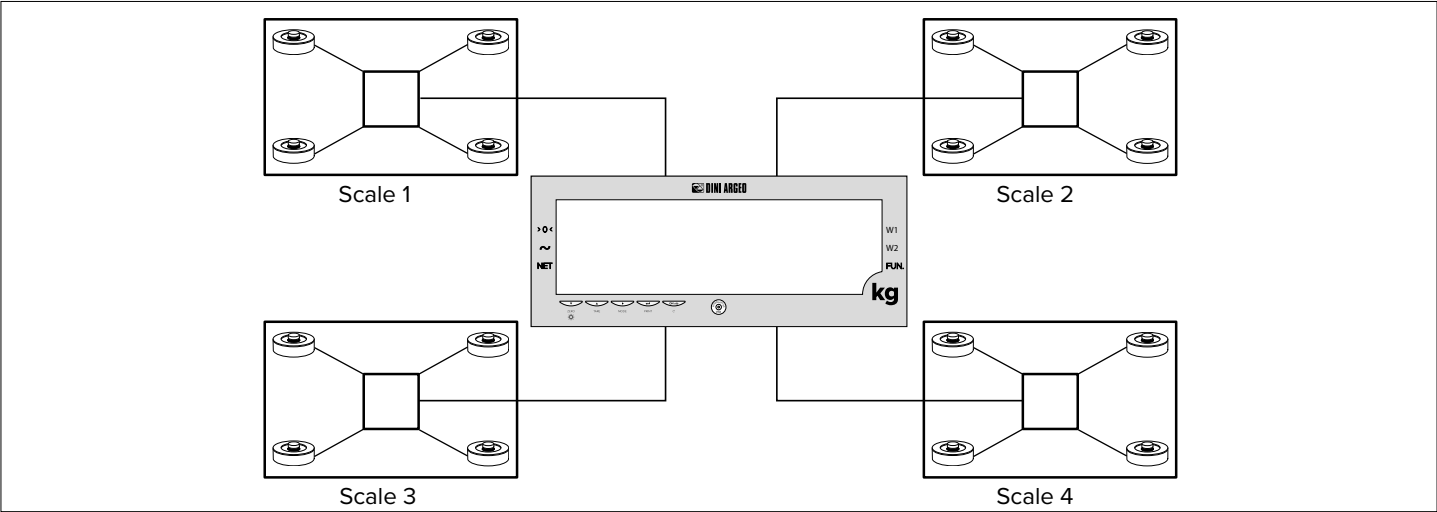
On / Off

Once powered, the indicator switches on automatically.

STAND-BY CONDITION
During normal operation, pressing and holding the key **C** for 2 seconds switches the indicator to standby mode.

From stand-by mode you can turn on the indicator by pressing the key **C**.

To turn off the indicator completely, you must shut down the power supply.

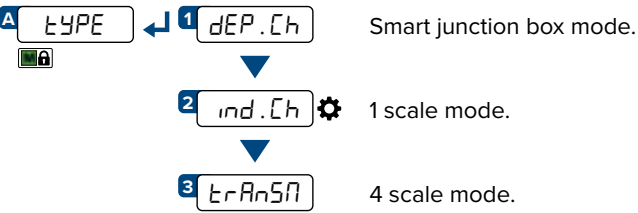*Complete menu on pages* **24 - 25**
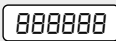
MENU ACCESS:

Press the ▲ *key during the start-up procedure.*

SAVING THE PARAMETERS:

*Press the* **C** *key several times, until the display shows* 5AUE?. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Theoretical calibration

Dependent channels
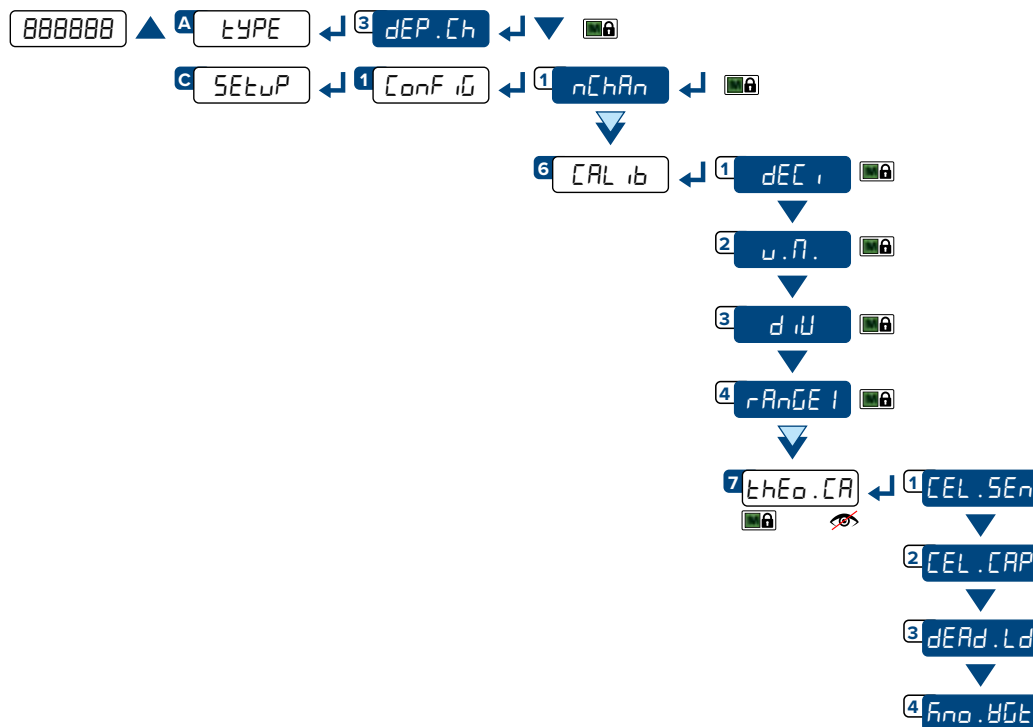
CALIBRATION PROCEDURE:

1. Select mode of use *dEP.Ch*.

2. Set the number of channels used (from *1* to *4*).

3. Set the calibration parameters:
- *dEC ı* = Number of decimals.
- *u.M.* = Unit of measurement (*KG, G, t, Lb*).
- *d ıU* = Minimum division.
- *rAnGE1* = Maximum range.

4. Set the cell data:
- *SEn.CEL* = Cell sensitivity (given by the sum of the mV/V value of each cell).
- *CEL.CAP* = Total capacity of the cells (given by the sum of the capacities of each cell).

5. Enter the weight value of the structure in the *dEAd.Ld* parameter. If you do not know this value, enter "0".

6. If the structure contains a quantity of material whose weight value is known (e.g. full silo), enter this value in the *Kno.WGt* parameter.

7. Application of theoretical calibration:
Press the **C** key to exit the calibration menu. The display shows *th.CALP*. Press the ↵ key to confirm the use of the theoretical calibration, or the **C** key to cancel.

LEGEND:

▼ Indicates repeated pressing of the ▼ key.

👁 Parameter visible only under certain conditions.

🔒 Parameter or menu subject to approval.

⚙ Default value of the parameter.

USER_MAN_ENG_DGT100_V8

Independent channels / transm

CALIBRATION PROCEDURE:

1. Select mode of use ind.Ch.

2. Set the number of connected scales (from I to 4).

3. Select the scale to be calibrated (from I to 4).

4. Set the calibration parameters:

       dECi   = Number of decimals.
       u.M.   = Unit of measurement (KG, G, t, Lb).
       diU   = Minimum division.
       rAnGE I = Maximum range.

5. Set the cell data:

       SEn.CEL = Cell sensitivity (given by the sum of the value of each cell).
       CEL.CAP = Total capacity of the cells (given by the sum of the value of each cell).

6. Enter the weight value of the structure in the dEAd.Ld parameter. If you do not know this value, enter "0".

7. If the structure contains a quantity of material whose weight value is known (e.g. full silo), enter this value in the Fno.HGt parameter.

8. Application of theoretical calibration:
Press the **C** key to exit the calibration menu. The display shows th.CALP. Press the ↵ key to confirm the use of the theoretical calibration, or the **C** key to cancel.

9. If trAnSM mode has been selected, repeat the procedure from point **3** for each scale to be calibrated.
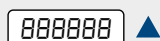

MENU ACCESS:

888888 ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* SAUEP. *Press the* ↵ *key to confirm.*
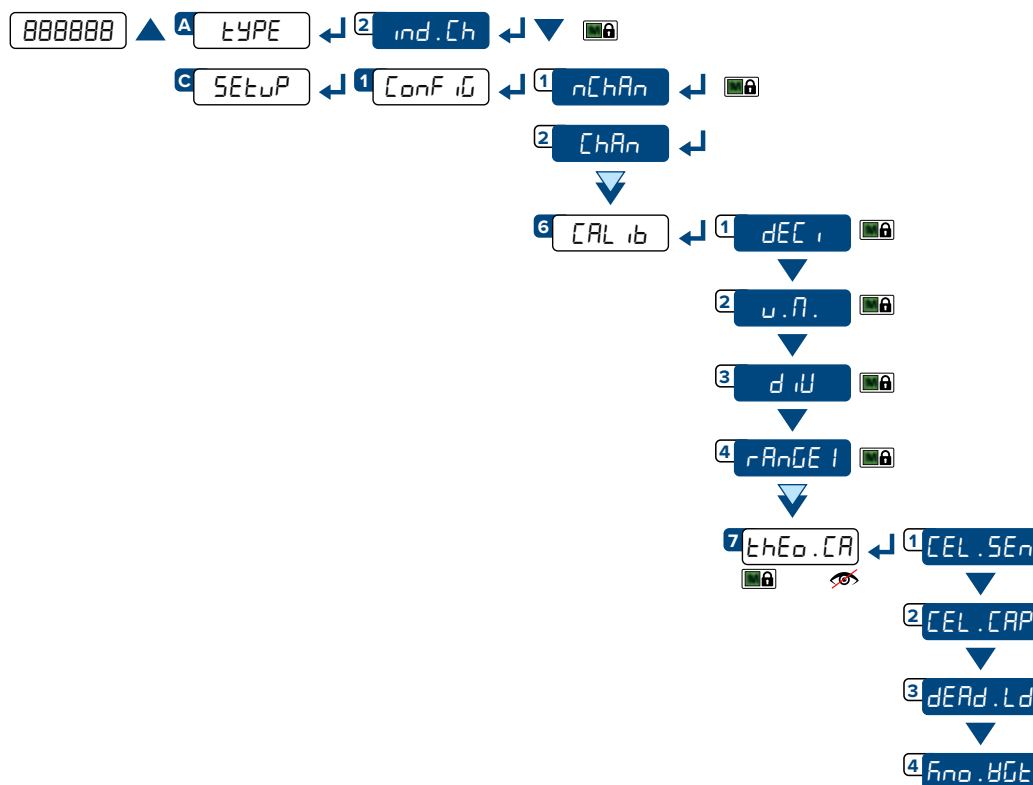
Complete menu on pages **24 - 25**

DINI ARGEO
Scales - Weighing systems

Calibration with sample weights

Dependent channels (with digital equalisation)

CALIBRATION PROCEDURE:

1. Select mode of use *dEP.Ch*.

2. Set the number of connected scales (from *1* to *4*).

3. Set the calibration parameters:
- *dEC i* = Number of decimals.
- *u.N.* = Unit of measurement (*KG*, *G*, *t*, *Lb*).
- *d iU* = Minimum division.
- *rAnGE 1* = Maximum range.

4. Equalise the cells.
   Attention: The equalisation procedure is not compulsory. However, for a good accuracy of the system, it is recommended to perform it.
   To perform equalisation follow the instructions on **page 31**.

5. Acquire the calibration points *(continued on next page)*

LEGEND:

▽ *Indicates repeated pressing of the* ▼ *key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

DINI ARGEO
Scales - Weighing systems

5. Acquire the calibration points:

A

Display View:

```
n  tP
```

press

↵

B

Display View:

```
n  3
```

Press ↵ and select the number of calibration points using the ▼ and ▲ keys (from 1 to 3). To confirm press

↵

C

Display View:

```
tP  0
```

Unload the scale.
To acquire the zero point press

↵

D

Display View:

```
ddt  1
```

Press ↵ and enter the value of the first sample weight using the ▼, ▲ and ▶ keys. To confirm press

↵

E

Display View:

```
tP  1
```

Load the scale with the first sample weight and press

↵

kg

F

Display View:

```
ddt  2
```

Press ↵ and enter the value of the second sample weight using the ▼, ▲ and ▶ keys. To confirm press

↵

G

Display View:

```
tP  2
```

Load the scale with the second sample weight and press

↵

kg

H

Display View:

```
ddt  3
```

Press ↵ and enter the value of the third sample weight using the ▼, ▲ and ▶ keys. To confirm press

↵

I

Display View:

```
tP  3
```

Load the scale with the third sample weight and press

↵

kg

i

For successful calibration, the value of the largest sample weight must be at least 50% of the capacity.

Complete menu on pages **24 - 25**
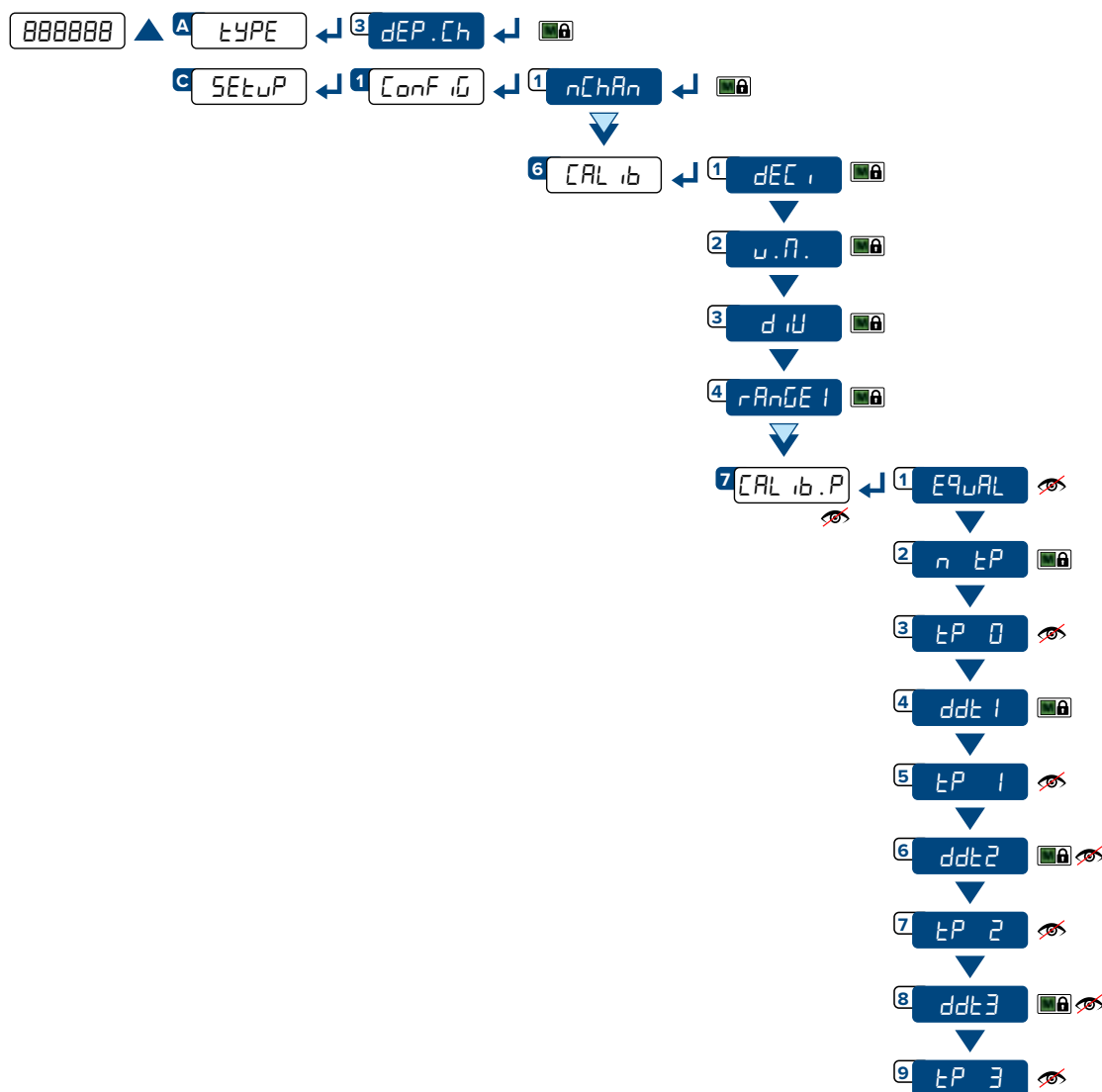
MENU ACCESS:

```
888888
```
▲ *Press the* ▲ *key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* SAVE?. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Independent channels / transm

CALIBRATION PROCEDURE:

1. Select mode of use ind.Ch.

2. Set the number of connected scales (from 1 to 4).

3. Select the scale to be calibrated (from 1 to 4).

4. Set the calibration parameters:

> dEC ı   = Number of decimals.
> u.M.   = Unit of measurement (KG, G, t, Lb).
> d ıU   = Minimum division.
> rAnGE 1   = Maximum range.

5. Acquire the calibration points *(continued on next page)*

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

5. Acquire the calibration points:

A — Display View:

`n tP`

press ↵

B — Display View:

`n 3`

Press ↵ and select the number of calibration points using the ▼ and ▲ keys (from 1 to 3). To confirm press ↵

C — Display View:

`tP 0`

Unload the scale.
To acquire the zero point press ↵

D — Display View:

`ddt 1`

Press ↵ and enter the value of the first sample weight using the ▼, ▲ and ▶ keys. To confirm press ↵

E — Display View:

`tP 1`

Load the scale with the first sample weight and press ↵

F — Display View:

`ddt 2`

Press ↵ and enter the value of the second sample weight using the ▼, ▲ and ▶ keys. To confirm press ↵

G — Display View:

`tP 2`

Load the scale with the second sample weight and press ↵

H — Display View:

`ddt 3`

Press ↵ and enter the value of the third sample weight using the ▼, ▲ and ▶ keys. To confirm press ↵

I — Display View:

`tP 3`

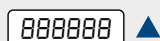Load the scale with the third sample weight and press ↵

ℹ️ For successful calibration, the value of the largest sample weight must be at least 50% of the capacity.
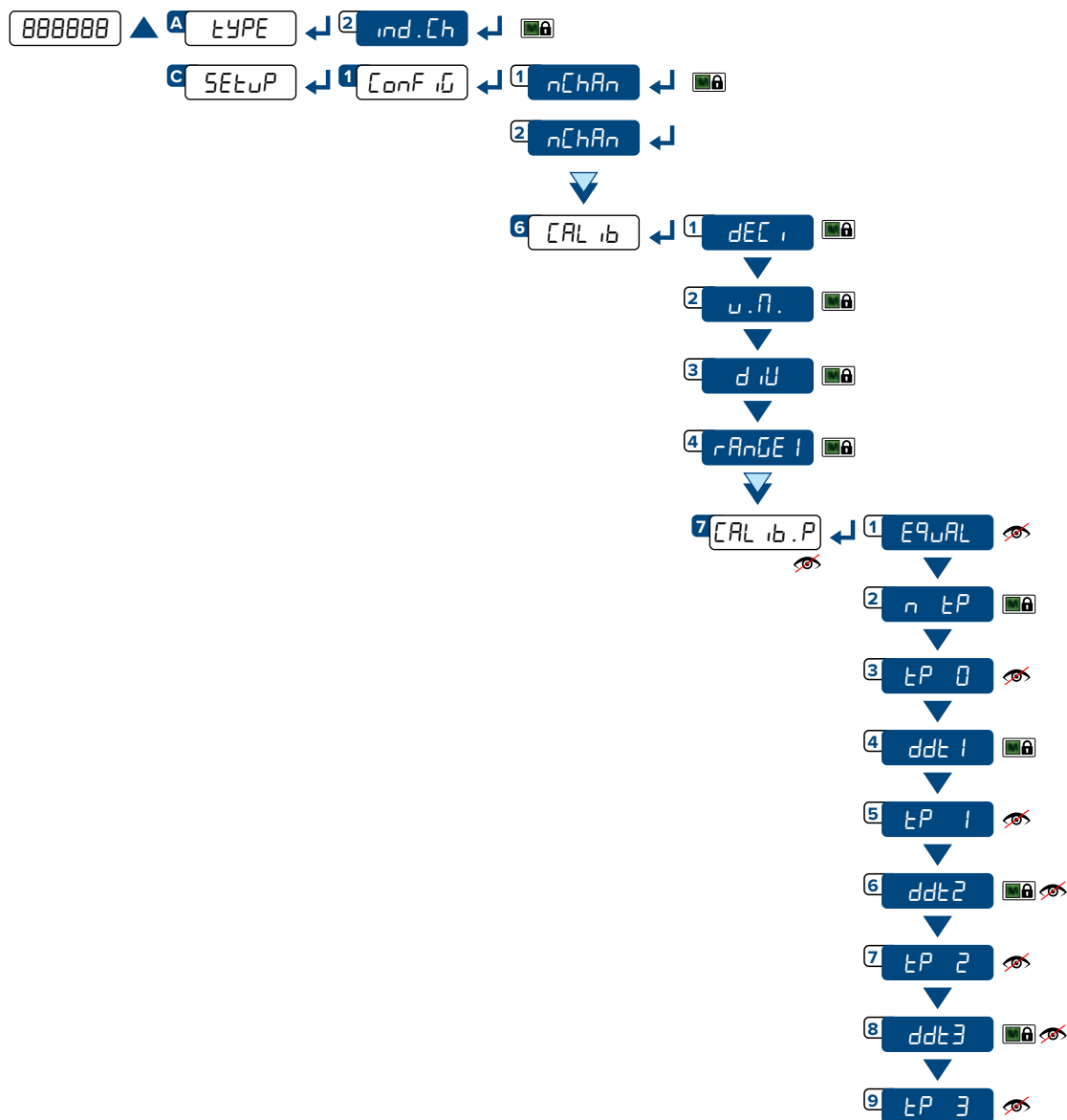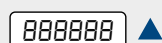
Complete menu on pages **24 - 25**

MENU ACCESS:

`888888` ▲ *Press the* ▲ *key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAUEP`. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Equalisation

If the dependent channel mode has been set, you can improve the accuracy of the system by digitally equalising the connected cells.

888888 ▲ **A** `tYPE` ↵ **1** `dEP.Ch`

C `SEtuP` ↵ **1** `ConFiG`

6 `CALib` ↵ **1** `dECi`

7 `CALib.P` ↵ **1** `EQuAL` 👁 ↵ `rESEtP` ↵

👁 *Visible only if* `tYPE = dEP.Ch`

A Display View:

`EQ 0`

completely unload the scale

press ↵

B Display View:

`EQ 1`

load the equalisation weight * so that it rests as much as possible only on **cell 1**

press ↵

C Display View:

`EQ 2`

load the equalisation weight * so that it rests as much as possible only on **cell 2**

press ↵

D Display View:

`EQ 3`

load the equalisation weight * so that it rests as much as possible only on **cell 3**

press ↵ (visible only if `ChAn = 3`)

E Display View:

`EQ 4`

load the equalisation weight * so that it rests as much as possible only on **cell 4**

press ↵ (visible only if `ChAn = 4`)

F Display View:

`EQ oñ`

when equalisation is complete the display shows the message `EQ oñ` and automatically exits the equalisation menu
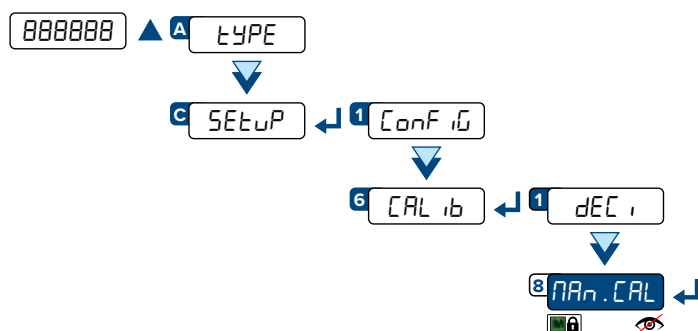
`n tP`

---

i Equalisation can only be performed if the system is configured with dependent channels and calibration with sample weights is active.

* For successful equalisation, it is advisable to use a compact weight with as small a supporting surface as possible, so that it rests as much as possible on only one cell. The weight value must be at least 20% of the capacity.

USER_MAN_ENG_DGT100_V8

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print

Manual calibration

888888 ▲ A `type`

↓

C `SEtuP` ↵ 1 `ConFiG`

↓

6 `CAL ib` ↵ 1 `dEC i`

↓

8 `MAn.CAL` ↵

If you know the number of ADC converter points for a known weight (for example if you want to copy the calibration from one indicator to another) the calibration points can be entered manually:

1. The display shows `Mod.Pnt`, proceed by pressing the ↵ key.

2. Using the ▲ and ▼ keys, select the calibration point you want to enter / change (from `0` to `3`).
Press the ↵ key to confirm.

3. The display shows `HEiGht`, use the ▲, ▼ and ▶ keys to enter the weight value.
Press the ↵ key to confirm.

4. The display shows `PointS`, use the ▲, ▼ and ▶ keys to enter the converter points value.
Press the ↵ key to confirm.

> **i**
> Repeat the procedure for each calibration point.
> If `trAnSM` mode has been selected, the procedure must be repeated for each scale (`ChAn 2, 3, 4`).
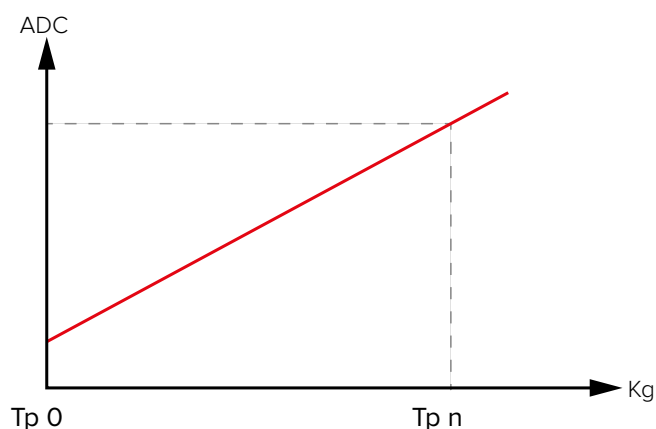
Quick zero calibration (pre-tare zeroing)

888888 ▲ A `type`

↓

C `SEtuP` ↵ 1 `ConFiG`

↓
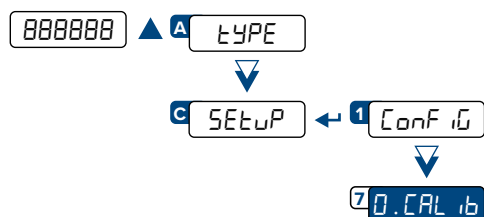
7 `0.CAL ib`

> **i**
> If `trAnSM` mode has been selected, it is first necessary to select the channel on which the zero calibration is to be performed (`ChAn 1 2, 3, 4`).
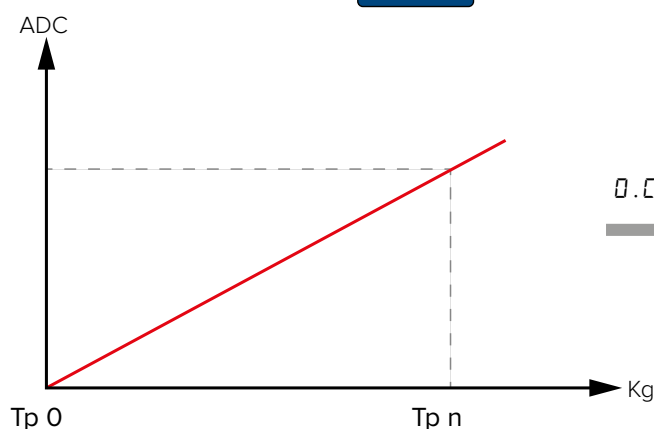
`0.CAL ib`
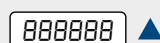
MENU ACCESS:

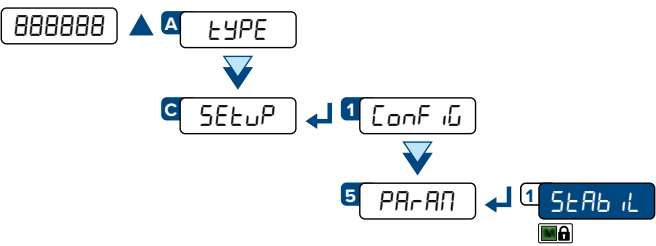888888 ▲

Press the ▲ key during the start-up procedure.

SAVING THE PARAMETERS:

Press the **C** key several times, until the display shows `SAVE?`. Press the ↵ key to confirm.

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print.

Filter adjustment

`888888` ▲ **A** `type`

C `SEtuP` ↵ **1** `ConFiG`

**5** `PArAM` ↵ **1** `StAbiL`

Filter	Response time (ms)	Updating frequency (Hz)	Filter	Response time (ms)	Updating frequency (Hz)
h.r.0	1230	6	FLt 2	590	25
h.r.1	1435	6	FLt 3	980	25
h.r.2	1840	6	F.F.50.1	440	50
h.r.3	2050	6	F.F.50.2	390	50
h.r.4	3280	6	F.F.50.3	340	50
h.r.5	4100	6	F.F.100.1	110	100
h.r.6	4920	6	F.F.100.2	210	100
dyn.0	1640	6	F.F.100.3	260	100
dyn.1	2050	6	F.F.100.4	280	100
dyn.2	2460	6	F.F.200.1	170	200
dyn.3	2460	6	F.F.200.2	155	200
FLt 0	250	25	F.F.200.3	140	200
FLt 1	390	25	F.F.400	50	400

> **i** In the case of an approved instrument, it is possible to select only FLT `FiLtErS`.

Stability detection sensitivity

It is possible to decide that tare, zero and print functions (from keypad or serial command / PLC) are performed only if the weight is stable.

`888888` ▲ **A** `type`

C `SEtuP` ↵ **1** `ConFiG`

5 `PArAM` ↵ **1** `StAbiL`

5 `diU.Stb`
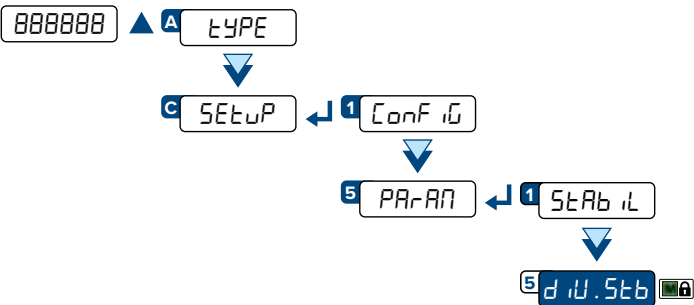
The value 0 disables the stability control.
By entering a value other than 0, you enable stability control.
Enter the number of deviation divisions beyond which the indicator detects instability.

From 0 to 99.
⚙ = 02.
M = 02.

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

Display updating frequency

Additional filter that acts only by displaying the weight, thus increasing its stability.
Useful in particular applications where you want to make the weight more stable in the eyes of the operator.

`888888` ▲ **A** `tYPE`

C `SEtuP` ↵ **1** `ConF iG`

2 `dSP.rF` ↵
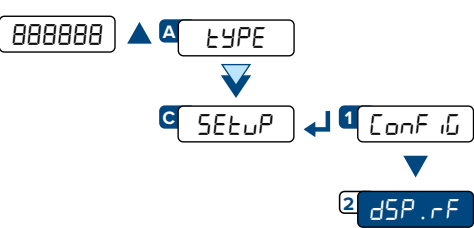
> **i** This parameter does not affect the actual speed and stability of the weight (set via the filter). It only affects the indication of the weight on the display.

1 `norN` ⚙ Function disabled.

2 `1 h2` 1 display update per second.

3 `2.5 h2` 2.5 display updates per second.

4 `5 h2` 5 display updates per second.

5 `10 h2` 10 display updates per second.

6 `20 h2` 20 display updates per second.

Gravity

`888888` ▲ **A** `tYPE`

C `SEtuP` ← **1** `ConF iG` ← **1** `PArAN`

4 `GrAU` 🔒
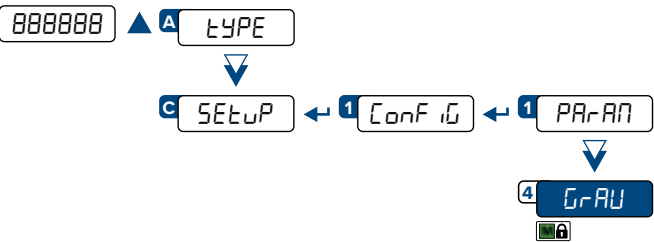
From `9.75001` to `9.84999`.
⚙ = `9.80390`.

This parameter allows you to correct the gravity acceleration value.
Before calibration, set the value of the calibration zone.
Next, set this value to the value of the zone of use.
Any difference between the two values will be automatically compensated.

> **i** In the case of an approved indicator, the value is read-only.

EXAMPLE:

Calibration zone
Italy
g = **9.80390**

→

Zone of use
Brazil
g = **9.77623**
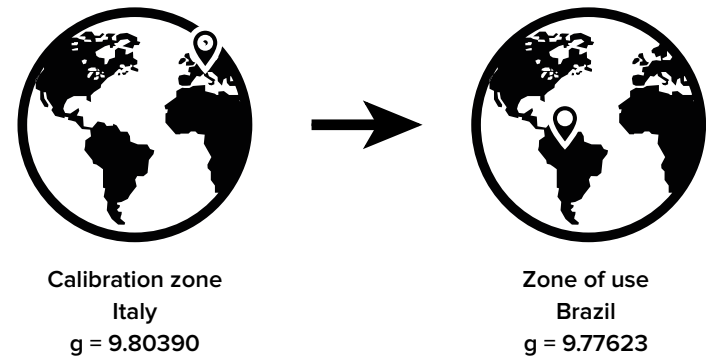
1. Before calibration, in the `GrAU` parameter enter the value 9.80390.

2. Calibrate the indicator.

3. Before using the indicator, in the `GrAU` parameter enter the value 9.77623.

MENU ACCESS:

`888888` ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAUEP`. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Zeroing parameters


```
888888    A  ΕYPE
```
```
          C  5EΕuP      1  ConF iG ↵  1  PArAN ↵  1  5ΕAb iL
```
```
                                                  2  Auto.0 🔒   % auto-zeroing on ignition.
```
```
                                                  3  0-PErC 🔒   % manual zeroing.
```
```
                                                  4  0.ΕrACh 🔒  Zero tracking.
```
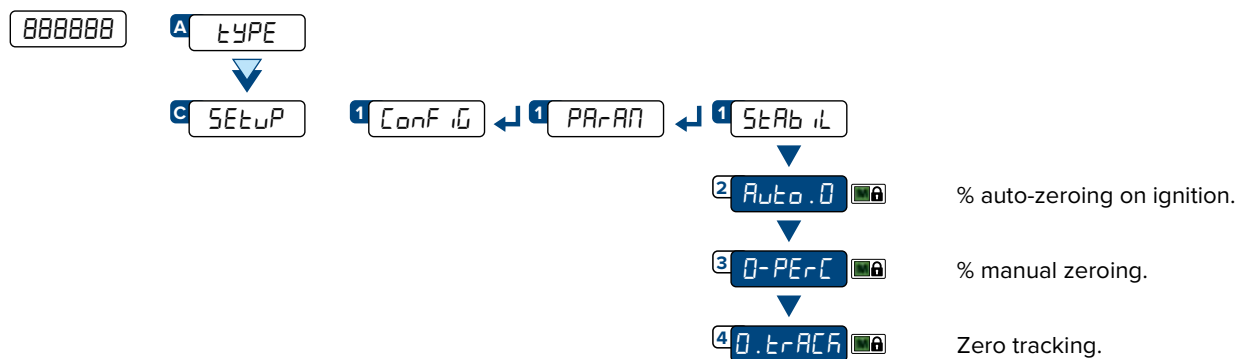
Auto-zeroing on ignition

```
2  Auto.0 ↵  1  d iSAb ⚙                    Disabled.
```
```
           2  EnAb ↵  1  C.PErC              Enabled, enter in C.PErC the % value of the capacity.     from 0 to 50%.
                                                                                                       from 0 to 10%.
           3  CYCLE ↵  1  C.PErC             In ind.Ch mode, it is possible to perform an auto-zeroing
                    👁                        cycle of all connected scales. Enter in C.PErC the % value   👁 Visible only if
                                             of the capacity.                                            ΕYPE ≠ ind.Ch
```

Maximum percentage of manual zeroing

```
3  0-PErc ↵    Indicates the weight value that can be zeroed by key or command.                  from 0 to 50%.
               The value is expressed as % of the full scale. For example: if the scale has a full scale   from 0 to 2%.
               (RANGE1) of 1000 kg, by setting 3% it is possible to zero up to 30 kg.            ⚙ = 2%.
               The value 0 disables the ZERO key and the zeroing commands.
```

Zero tracking

This menu allows to set zero tracking, i.e. the compensation parameter of the thermal drift of the scale; the set value corresponds to the number of divisions that is reset to zero in the fixed time of 1 second.

```
4  0-PErc ↵  1  Εr  10        10 divisions.
```
```
             2  Εr  8         8 divisions.
```
```
             3  Εr  6         6 divisions.
```
```
             4  Εr  4         4 divisions.
```
```
             5  Εr  2         2 divisions.
```
```
             6  Εr  1         1 division.
```
```
             7  Εr 1r2 ⚙      1/2 division.
```
```
             8  Εr 1r4        1/4 division.
```
```
             9  Εr  no        Tracking disabled.
```

> ℹ️ In the case of an approved indicator, it is possible to select the values Εr 1r2, Εr 1r4, Εr no.

LEGEND:

🔻 *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

DINI ARGEO
Scales - Weighing systems

Restoring zero

`888888` ▲ **A** `type`

▼

C `F.ModE` ↵ **1** `FunCt`

▼
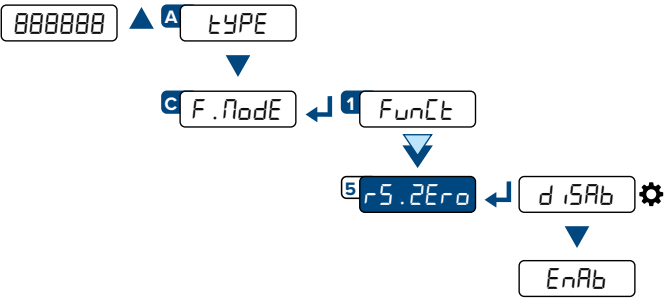
5 `rS.ZEro` ↵ `diSAb` ⚙ Restoring zero disabled.

▼

`EnAb` Restoring zero enabled.
• If `Auto.0` = `diSAb`:
The last zeroing in the memory before turning off the power is always restored.
• If `Auto.0` = `EnAb` / `CYCLE`:
The last zeroing in the memory before turning off the power is restored only if the auto-zeroing fails.

Semi-automatic zeroing

By pressing the ▲ key, or sending the zero command, the indicator zeroes the gross weight on the scale. For a moment the display shows "`ZEro`" and then it shows 0 (gross weight).

The semi-automatic zeroing cannot be performed if:
• The weight on the scale is greater than the zero capacity (`0.PErC`).
• The weight is unstable.

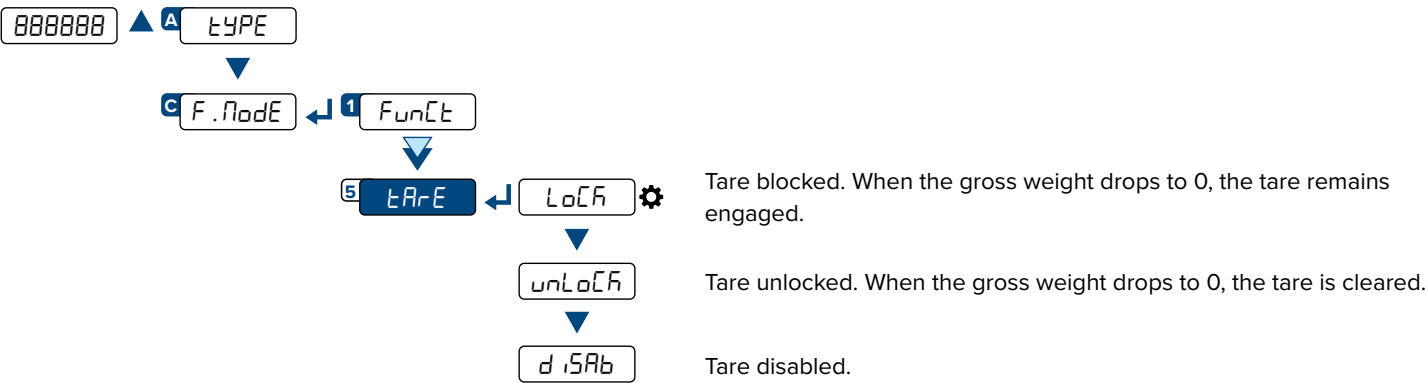---

Complete menu on pages 24 - 25

MENU ACCESS:

`888888` ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAVE?`. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Tare mode

$$888888 \quad \blacktriangle \quad \boxed{A} \boxed{\text{*YPE}}$$

$$\boxed{C} \boxed{F.\text{NodE}} \leftarrow \boxed{1} \boxed{\text{FunE*}}$$

$$\boxed{5} \boxed{\text{*ArE}} \leftarrow \boxed{\text{LoEh}} \; \maltese$$ Tare blocked. When the gross weight drops to 0, the tare remains engaged.

$$\boxed{\text{unLoEh}}$$ Tare unlocked. When the gross weight drops to 0, the tare is cleared.

$$\boxed{d \; \text{iSAb}}$$ Tare disabled.

Semi-automatic tare

By pressing the ▲ key, or sending the tare command, the indicator sets as tare the weight on the scale. For a moment the display shows "*ArE*" and then it shows 0 (net weight). The **NET** light indicates that the net weight is shown on the display.

The semi-automatic tare cannot be performed if:
*   The weight is less than one division.
*   The weight is overloaded.

Predetermined tare

By holding down the ▲ key, or by means of the predetermined tare command, it is possible to enter a tare value manually.
For a moment the display shows "*-tN-*" and shows the tare present (or 0 if no tare is present).
Enter the tare value and press ↵ to confirm.

Clearing the tare

The tare can be cleared in different ways:
*   By unloading the scale and performing a semi-automatic tare.
*   By entering a predetermined tare value of 0.
*   If the weight is negative, pressing the ▼ key.

LEGEND:

| ▼ | *Indicates repeated pressing of the ▼ key.* | 👁 | *Parameter visible only under certain conditions.* | 🔒 | *Parameter or menu subject to approval.* | ✿ | *Default value of the parameter.* |

DINI ARGEO
Scales - Weighing systems

Alibi memory

The alibi memory allows you to store the weight values transmitted to the computer for further processing and/or data integration. The stored values can then be retrieved from the PC port or directly on the display of the indicator for later checking.

Enabling the alibi memory

```
888888   ▲ A   ЕУРЕ
              ▼
   C  F.ПodE  ↵ 1  FunCt  ↵ 1  U iSS
                              ▼
                       4  AL ib i
```
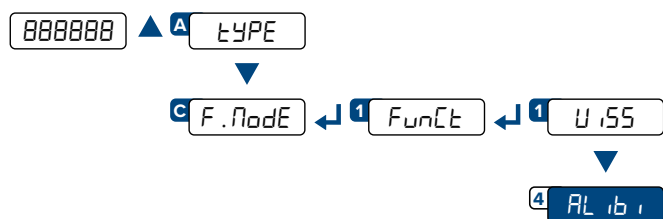
Saving a weighing operation in the alibi memory

A weighing operation is stored after receiving the **PID** serial command (see **"Serial commands" page 52**) or after pressing the ↵ key. The indicator transmits on the PC port the gross weight, the tare and an ID code that uniquely identifies the weighing. The ID has the following format:
• rewrite number: 5-digit number (from 00000 to 00255) indicating the number of complete rewrites;
• weighing number: 6-digit number (from 000000 to 131072) indicating the weighing number in the current rewrite.
Each time it is saved, the weighing number is increased by 1; when it reaches the value 131072, it starts again from 000000 and the rewrite number is increased by 1.

Example
If the weighing that has been saved is as follows:

PIDST,1,   1.000kg,   1.000kg,00126-131072

The next one will be:

PIDST,1,   1.000kg,   1.000kg,00127-000000

A weighing operation can only be saved if the weight ≥ 0, stable and valid (not underloaded or overloaded).
To store the weighing operation by key, the function must be active (see **"Reactivating printing" on page 48**).
In addition, if the indicator is approved, the weight must exceed 20 divisions.
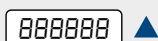
If these conditions are not met:
• the response to the PID command will have "NO" instead of the ID (**PIDST,1,   1.000kg,   1.000kg,NO**);
• there is no transmission when the ↵ key is pressed.

Optimized layout for A4 print.

Complete menu on pages 24 - 25

MENU ACCESS:

`888888` ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* SAUE?. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Reading the alibi memory

FROM THE TRANSMITTER (MANUAL)

By pressing the ▶ key you can read a saved weight:
you will be asked to enter the rewrite number "rEɯ. ιd" (from 0 to 255) and the ID number " ιd" (from 0 to 131072).
The weighing data are shown. Use the ▼ and ▲ keys to scroll through the following information:
- "Ch. X", where X indicates the scale number.
- "uП YY", where YY indicates the unit of measurement (НG, G, Ł or Łb).
- "GroSS", followed by the gross weight.
- "ŁArE / ŁArEPŁ", followed by the tare value.

Press the **C** key to return to weighing.

The weighing of an ID can only be verified if:
• it has a rewrite number equal to the current alibi memory number and a weighing number ≤ the last value received with the PID command;
• it has a rewrite number ≥ 0, but 1 less than the current alibi memory value, and a weighing number greater than the last value received with the PID command.

FROM PC

To read a weighing operation from a PC, see the serial command **"READING A WEIGHING OPERATION IN THE ALIBI MEMORY"** on page 54.

FROM PLC

To read a weighing operation from a PLC, refer to the Modbus and Fieldbus protocol manuals.
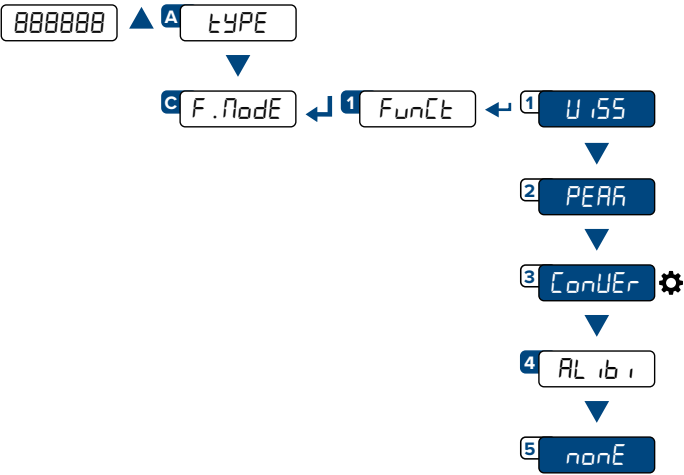
> **i**
> If the alibi memory is empty, when the ▶ key is pressed the display shows "EПPŁY" for one second and returns to weighing mode.
> If an invalid ID is entered, the display shows "no ιd" and returns to weighing mode.

Initialising the alibi memory

888888   ▲ **A** ŁYPE

C SEŁuP   ⏎ **1** ConF ιG

4 ιnι.AL

👁 *Not visible if the indicator is approved.*

> **i**
> This operation deletes all saved weighing operations; it is not possible to delete a weighing operation individually.

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

DINI ARGEO
Scales - Weighing systems

USER_MAN_ENG_DGT100_V8

Optimized layout for A4 print

High resolution

`U iSS` Weight display in high resolution (x10). Press the ▶ key to activate or deactivate the function.
When the weight is displayed in high resolution, the indicator light **F** is lit.
In the case of an approved indicator, the high-resolution weight display is automatically deactivated after 5 seconds.

Peak detection

`PEAh` Detection of the maximum weight value during a time interval. Press the ▶ key to activate the function. The display shows "`-PEAh-`" every 5 sec and the indicator shows the maximum weight reached since the function was activated.
To deactivate the function press the ▶ again, the display shows "`PEAhoF`" for a moment and shows the instantaneous weight again.
By holding down the ↵ key it is possible to select in the `P iC .t iN` parameter the minimum time of the pulse duration, expressed in hundredths of a second. The lower this value, the higher the peak function sensitivity.

Converting units of measurement

`conUEr` Converting the scale unit of measurement using a free conversion factor. Press the ▶ key to convert the weight to pounds.
By holding down the ▶ key, you can enter a free conversion factor, which will be multiplied by the weight.
Example: to make the display show the cubic meters of water on the scale, enter the value 997 as the conversion factor.
The ▶ key can be used to switch from the main unit of measurement to the secondary unit at any time.
When the secondary unit of measurement is displayed, the indicator light **F** is lit.

Alibi memory

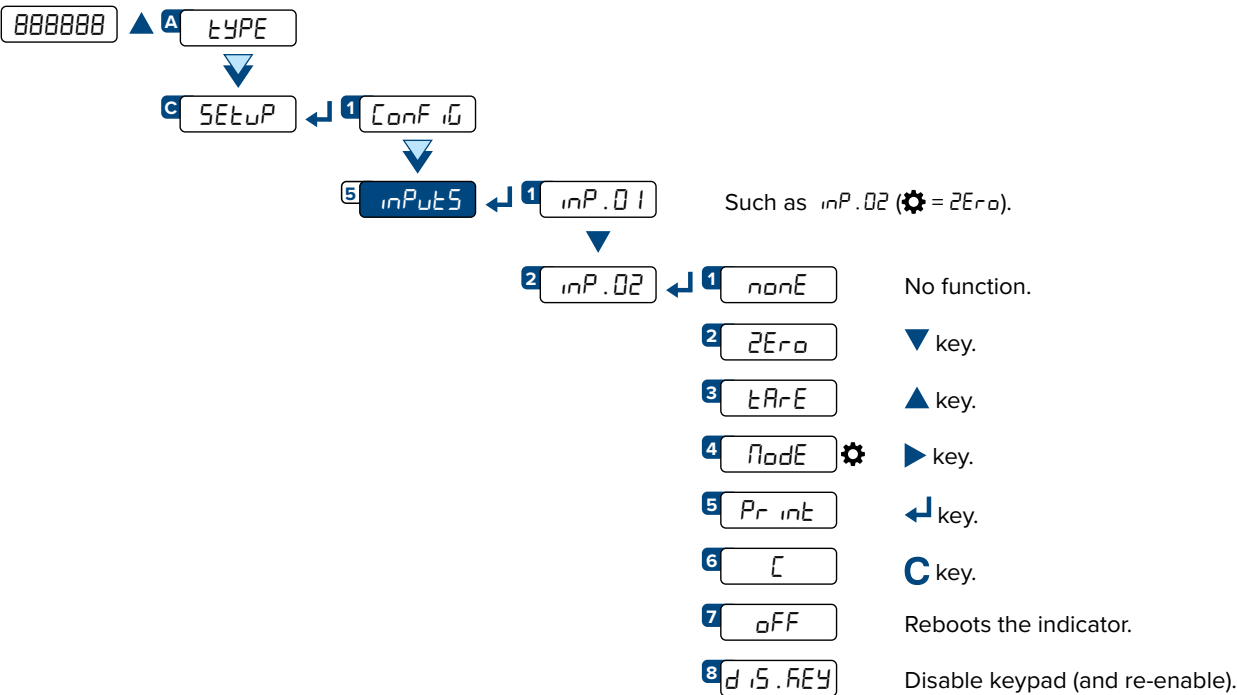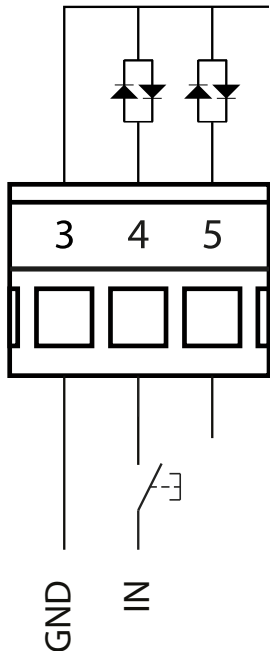`AL ib i` (See section **"Alibi memory" page 38**).

No function

`nonE` No function when the ▶ key is pressed.

Complete menu on pages **24 - 25**

MENU ACCESS:

`888888` ▲ *Press the* ▲ *key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAUEP`. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Input configuration

The indicator has 2 configurable inputs (bidirectional optocouplers).

```
888888  ▲ A  tYPE
              ▼
        C  SEtuP  ↵ 1  ConFiG
                          ▼
            5  inPutS  ↵ 1  inP.01        Such as  inP.02 (✿ = 2Ero).
                              ▼
                  2  inP.02  ↵ 1  nonE         No function.
                                2  2Ero        ▼ key.
                                3  tArE        ▲ key.
                                4  ModE  ✿     ▶ key.
                                5  Print       ↵ key.
                                6  C           C key.
                                7  oFF         Reboots the indicator.
                                8  diS.HEY     Disable keypad (and re-enable).
```
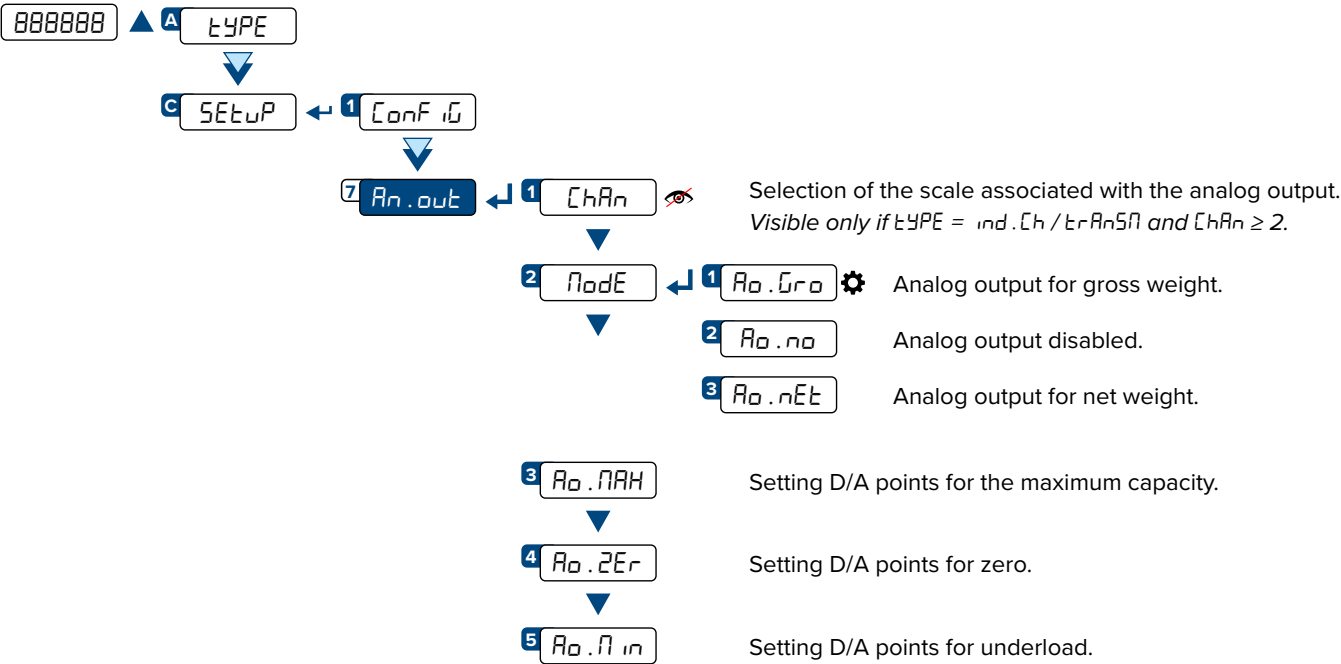
INPUT CONNECTION:

i The input is activated when there is a potential difference between terminals 4 - 5 (IN1 and IN2) and terminal 3 (INCOM). The inputs are bidirectional, therefore it is possible to invert GND and Vdc.

```
   3    4    5

   GND  IN
```

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print

Output configuration

The indicator has 2 programmable outputs (photomosfet).

`888888` ▲ **A** `type`

C `SEtuP` ↵ **1** `ConFiG`

6 `outPut` ↵ **1** `out.01`   Such as `out.02`.

2 `out.02` ↵ **1** `FunC` ↵ **1** `0 nonE`   No function.

2 `1 GroS` ⚙   Setpoint on gross weight.

3 `2 nEt`   Setpoint on net weight.

4 `4 Gro.0`   Gross weight on zero.

5 `5 nEt.0`   Net weight on zero.

6 `6 Moti`   Unstable weight.

7 `23 h.Pr`   Pressing the ↵ key.

8 `25 h.Mod`   Pressing the ▶ key.

9 `26 h.C`   Pressing the **C** key.

10 `27 h.2Er`   Pressing the ▼ key.

11 `28 h.tAr`   Pressing the ▲ key.

12 `29 Err`   Error.

13 `30 nEt.t`   Setpoint on net weight with tare.

2 `nor'nC` ↵ **1** `no` ⚙   Contact normally open.

2 `nC`   Contact normally closed.

3 `on.StAt` ↵ **1** `drCt` ⚙   Direct activation / deactivation.

2 `StbL`   Activation / deactivation at stability.

4 `rL.iSt` ↵ **1** `iSt.oFF` ⚙   Hysteresis disabled.

2 `iSt.on`   Hysteresis enabled.

5 `EnAb.tM` ↵ **1** `0.000`   Activation duration time (s).

6 `dELAY` ↵ **1** `0.000`   Activation delay time (s).

7 `SiGn` ↵ **1** `PoSit`   Positive weight operation.

2 `nEGAt`   Negative weight operation.

MENU ACCESS:

`888888` ▲   *Press the* ▲ *key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAVE?`. *Press the* ↵ *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Analog output configuration

The DGT100AN model has an analog output in voltage (0 - 5 / 0 - 10 Vdc) or current (4 - 20 / 0 - 20 mA).

`888888` ▲ **A** `tYPE`
⬇
C `SEtuP` ↵ **1** `ConFiG`
⬇
7 `An.out` ↵ **1** `ChAn` 👁 Selection of the scale associated with the analog output.
Visible only if `tYPE` = `ind.Ch` / `trAnSN` and `ChAn` ≥ 2.
⬇
2 `ModE` ↵ **1** `Ao.Gro` ⚙ Analog output for gross weight.
2 `Ao.no` Analog output disabled.
3 `Ao.nEt` Analog output for net weight.

3 `Ao.MAH` Setting D/A points for the maximum capacity.
⬇
4 `Ao.2Er` Setting D/A points for zero.
⬇
5 `Ao.M in` Setting D/A points for underload.

> **i** Voltage or current operation is determined by the connection to the indicator terminals:
>
> <u>Current:</u> 9 (+) and 10 (-).
> <u>Voltage:</u> 11 (+) and 12 (-).

CURRENT ANALOG OUTPUT
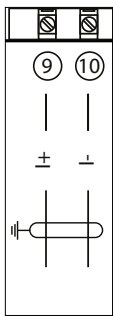
9 10
± ⊥

VOLTAGE ANALOG OUTPUT
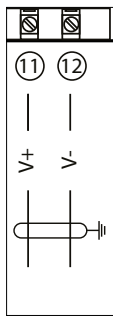
11 12
V+ V-

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*
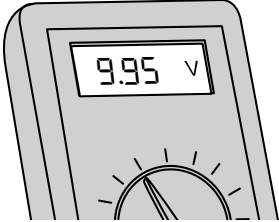
⚙ *Default value of the parameter.*

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print

CALIBRATION PROCEDURE:

A

Connect a multimeter to the indicator. Go to the parameter to be changed (Ao ПAH, Ao 2E, Ao П ιn) and set an approximate value.

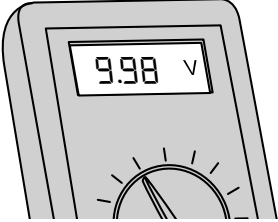| Voltage output	Current output
62650 ≂ 10 V	58600 ≂ 20 mA
0 ≂ 0 V	12700 ≂ 4 mA
	0 ≂ 0 mA

B

Press ⏎ to update the output value on the multimeter.

9.95 V

C

Increase or decrease the value to reach the desired output.

100 D/A points ~ 0.015 V / 0.035 mA
1000 D/A points ~ 0.15 V / 0.34 mA
10000 D/A points ~ 1.57 V / 3.42 mA

Example:
Increase [Ao ПAH] from 62650 to 62750.
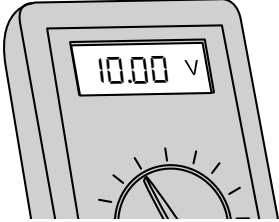
D

Press ⏎ to update the output value on the multimeter.
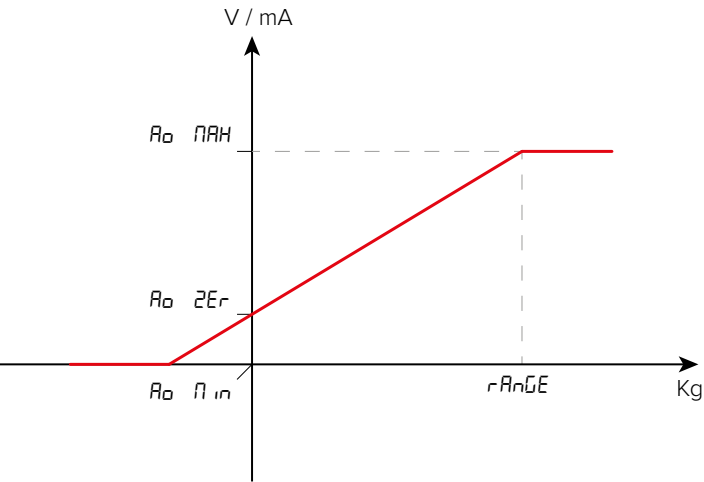
9.98 V

E

Repeat the procedure from point "**C**" until the desired value is reached, then press ⏎ to save.

10.00 V

F

Save the changes (press the **C** key several times until you reach the message [5AUE?], then press the ⏎ key to confirm).

ANALOG OUTPUT GRAPH:

MENU ACCESS:

888888 ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* 5AUE?. *Press the* ⏎ *key to confirm.*

DINI ARGEO
Scales - Weighing systems
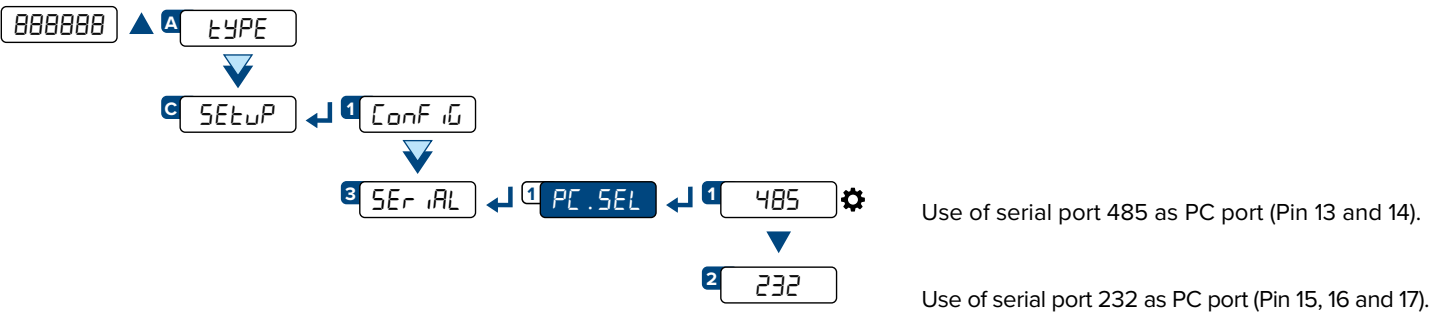
Optimized layout for A4 print.

Serial communication configuration

The indicator has 2 serial ports (232 and 485) that can be used indiscriminately to communicate:
• In bidirectional mode with the PC / PLC ("PC" port);
• In one-directional mode with the PC, thermal printer, repeater ("PRN" port);

It is necessary to choose which port to use as PC and, consequently, which one to use as PRN.
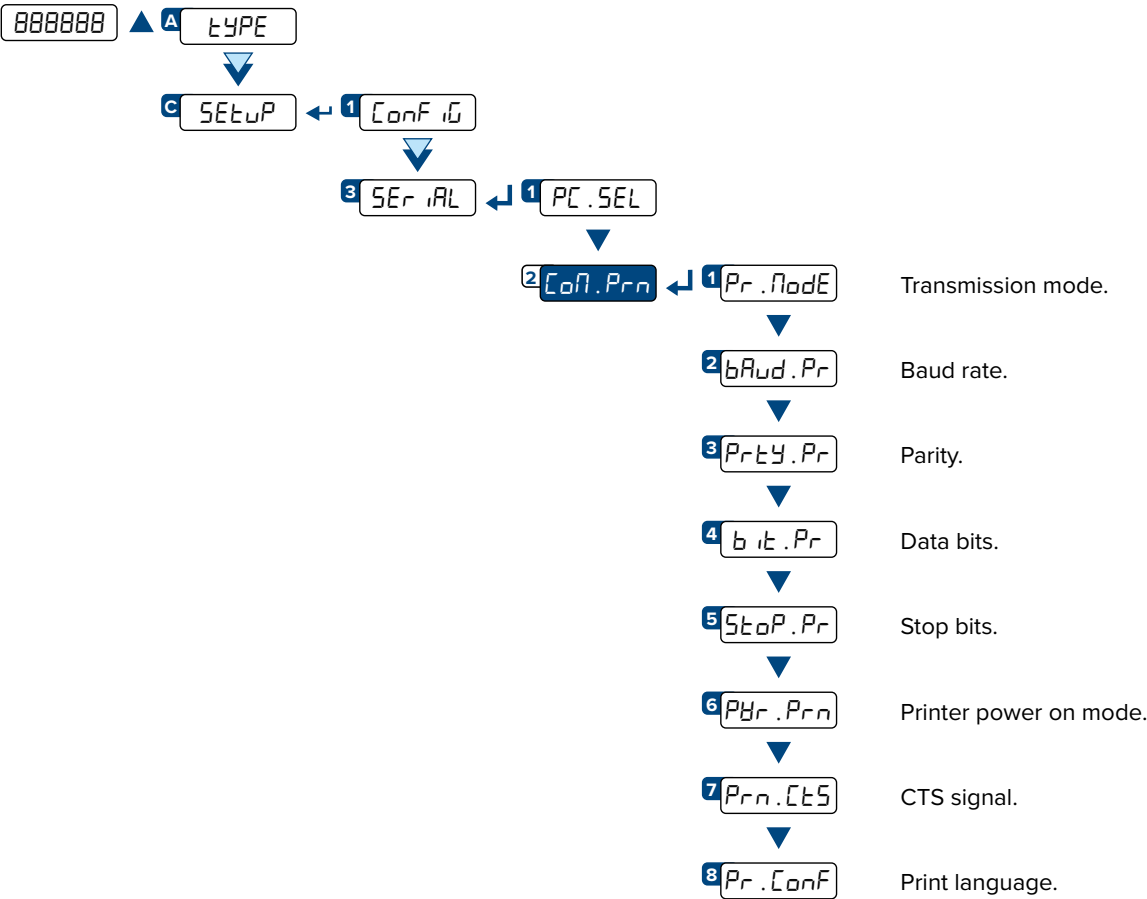
Selection of the PC serial port

```
888888  ▲  A  EYPE
              ⯆
        C  SEEuP  ↵  1  ConF iG
                       ⯆
              3  SEr iAL  ↵  1  PC.SEL  ↵  1  485  ⚙   Use of serial port 485 as PC port (Pin 13 and 14).
                                              ⯆
                                           2  232        Use of serial port 232 as PC port (Pin 15, 16 and 17).
```

ⓘ In model **DGT100PB** select port 485 as PC port to communicate with the PLC through the built-in fieldbus.

LEGEND:

⯆ *Indicates repeated pressing of the ▼ key.*

👁️ *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print

Configuration of the printer port (COM.PRN)

888888	▲	A	tYPE					

| | C | SEtuP | ← | 1 | ConFiG | | | | |

| | | | 3 | SEriAL | ← | 1 | PC.SEL | |

2 CoN.Prn	←	1	Pr.NodE	Transmission mode.
		2	bAud.Pr	Baud rate.
		3	PrtY.Pr	Parity.
		4	bit.Pr	Data bits.
		5	StoP.Pr	Stop bits.
		6	PWr.Prn	Printer power on mode.
		7	Prn.CtS	CTS signal.
		8	Pr.ConF	Print language.

Transmission mode

1 Pr.NodE	←	1	Pr-no	⚙	Transmission not enabled.
		2	PrPC.hA		Transmission of the weight value when the ← key is pressed.
		3	rEPE.6		Transmission of the weight to DINI ARGEO 6-digit repeater.
		4	PrPC.EH		Extended string transmission when the ← key is pressed.
		5	PrPC.St		Standard string transmission when the ← key is pressed.
		6	ALL.EHt		Continuous transmission of the extended string.
		7	ALL.Std		Continuous transmission of the standard string.
		8	tPr		Enables printing on DINI ARGEO printer.

---

i

For the specifications of transmission modes, strings and protocols see the section **"TRANSMISSION PROTOCOLS"**.

Setting Pr.NodE = rEPE.6 automatically sets the serial port to 4800, N-8-1. It is however possible to set it differently.

Complete menu on pages 24 - 25

MENU ACCESS:

888888	▲

Press the ▲ key during the start-up procedure.

SAVING THE PARAMETERS:

Press the C *key several times, until the display shows* SAVE?. *Press the* ← *key to confirm.*

DINI ARGEO
Scales - Weighing systems

Baud rate, parity, data bits, stop bits

2 `bAud.Pr` ↵ **1** `9600` ⚙
2 `4800`
3 `2400`
4 `1200`
5 `115200`
6 `57600`
7 `38400`
8 `19200`

3 `Prty.Pr` ↵ **1** `nonE` ⚙   No parity, 8 data bits, 1 stop bit.
2 `EUEn`   Even.
3 `odd`   Odd.

4 `bit.Pr` ↵ **1** `8` ⚙   8 bits.
2 `7`   7 bits.

5 `StoP.Pr` ↵ **1** `1` ⚙   1 stop bits.
2 `2`   2 stop bits.

Printer power on mode

It is possible to set the way the printer is turned on:

6 `PYr.Prn` ↵ **1** `PYr.EHt` ⚙   Printer always on.
2 `EHt.oFF`   Printer turned on at the time of printing.

CTS signal

On serial port 232 there is the CTS (Clear to send) signal in pin 16.

7 `Prn.CtS` ↵ **1** `noCtS` ⚙   CTS signal not managed.
2 `EnuCtS`   Emulation of the CTS signal.
3 `CtSh`   CTS signal active high.
4 `CtSL`   CTS signal active low.

👁 visible only if `Pr.NodE = tPr`

Print language

8 `Pr.ConF` ↵ **1** `LAnG` ↵ **1** `itAL` ⚙   Italian.
2 `ESPA`   Spanish.
3 `FrAn`   French.
4 `dEut`   German.
5 `EnGL`   English.

👁 visible only if `Pr.NodE = tPr`

ℹ Using the Dinitools software you can configure additional printing parameters.
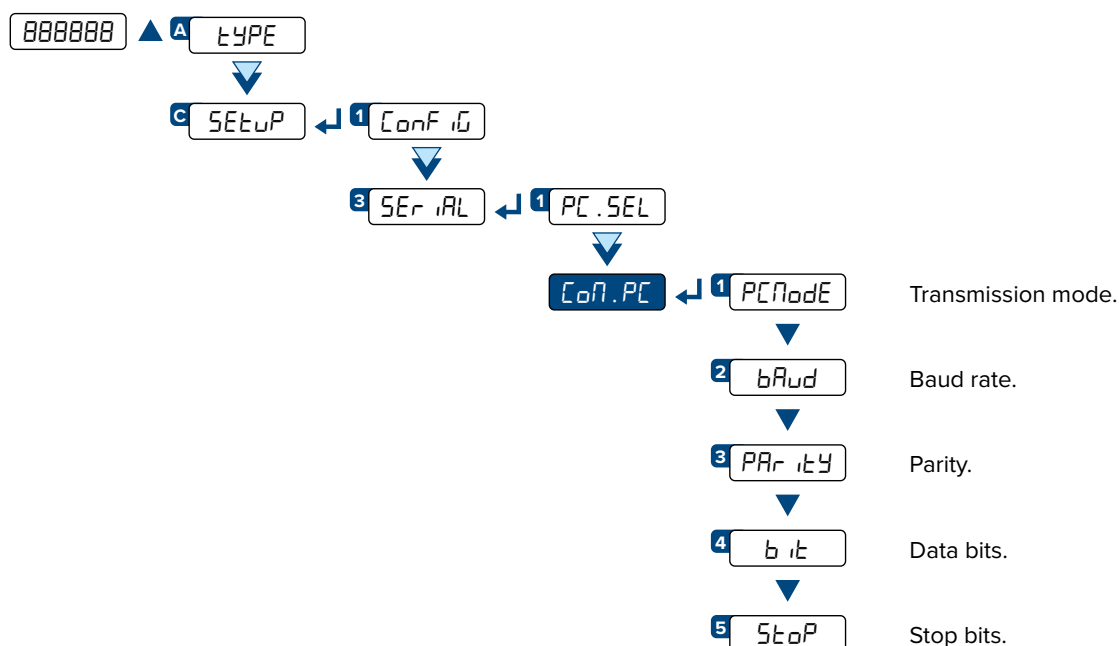

LEGEND:

▽ *Indicates repeated pressing of the ▼ key.*

👁 *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*
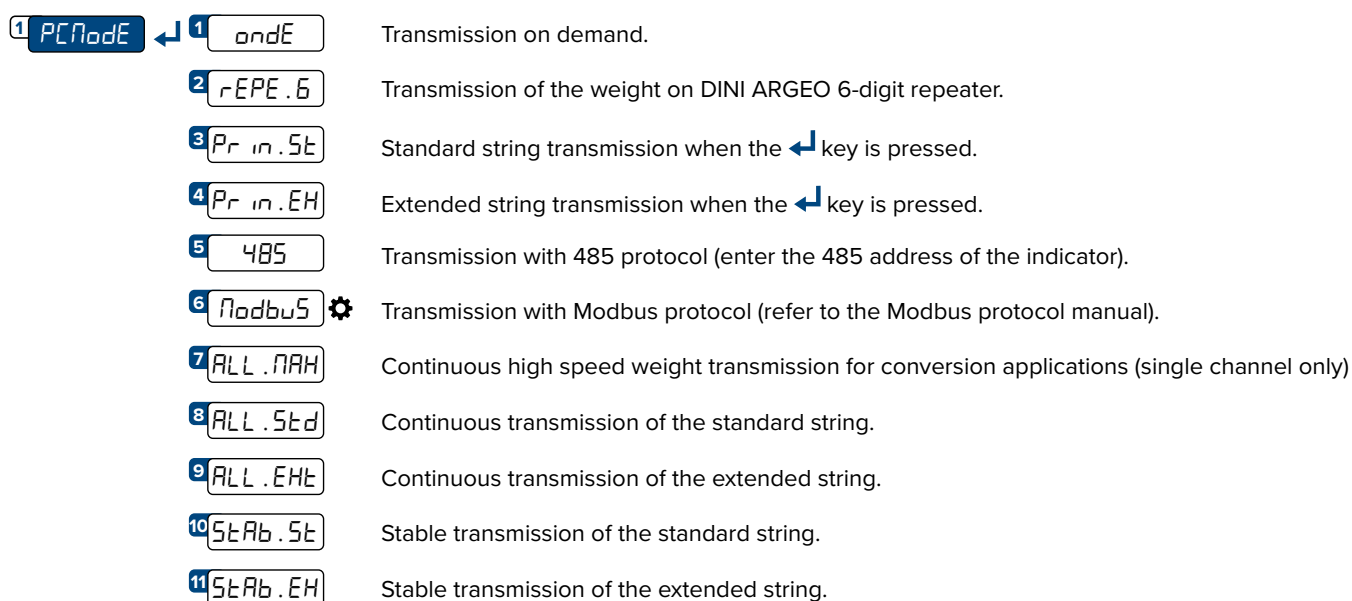
⚙ *Default value of the parameter.*

Reactivation of printing

| 888888 | ▲ | **A** | ㄴYPE |

↓

| **C** | F.ModE | ↵ | **1** | FunEt |

↓

| **2** | rEAcl | ↵ | **1** | 2Ero | ⚙ | Reactivation of printing after the weight has changed from zero. |

| **2** | ALUAYS | Printing always active. |

| **3** | inSt | Reactivation of printing after the weight has changed from instability. |
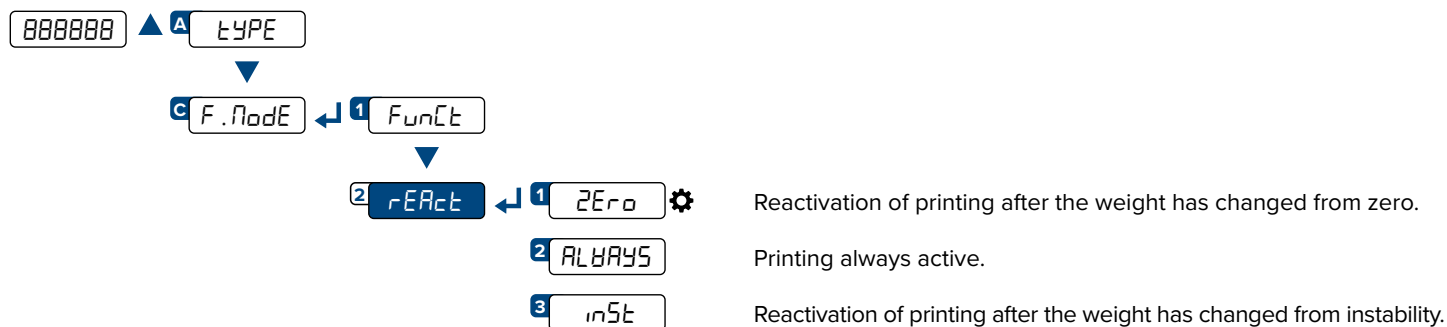
Configuration of the PC port (COM.PC)

| 888888 | ▲ | **A** | ㄴYPE |

↓

| **C** | SEtuP | ↵ | **1** | ConFiG |

↓

| **3** | SEriAL | ↵ | **1** | PC.SEL |

↓

| CoN.PC | ↵ | **1** | PCModE | Transmission mode. |

↓

| **2** | bAud | Baud rate. |

↓

| **3** | PArity | Parity. |

↓

| **4** | bit | Data bits. |

↓

| **5** | StoP | Stop bits. |

Transmission mode

| **1** | PCModE | ↵ | **1** | ondE | Transmission on demand. |

| **2** | rEPE.6 | Transmission of the weight on DINI ARGEO 6-digit repeater. |

| **3** | Prin.St | Standard string transmission when the ↵ key is pressed. |

| **4** | Prin.EH | Extended string transmission when the ↵ key is pressed. |

| **5** | 485 | Transmission with 485 protocol (enter the 485 address of the indicator). |

| **6** | ModbuS ⚙ | Transmission with Modbus protocol (refer to the Modbus protocol manual). |

| **7** | ALL.MAH | Continuous high speed weight transmission for conversion applications (single channel only) |

| **8** | ALL.Std | Continuous transmission of the standard string. |

| **9** | ALL.EHt | Continuous transmission of the extended string. |

| **10** | StAb.St | Stable transmission of the standard string. |

| **11** | StAb.EH | Stable transmission of the extended string. |

Complete menu on pages
24 - 25

MENU ACCESS:

| 888888 | ▲ | Press the ▲ key during the start-up procedure.

SAVING THE PARAMETERS:

Press the **C** key several times, until the display shows SAUEP. Press the ↵ key to confirm.

Optimized layout for A4 print.

DINI ARGEO
Scales - Weighing systems

Baud rate, parity, data bits, stop bits

2 `bAud` ↵ **1** `9600` ⚙

2 `4800`

3 `2400`

4 `1200`

5 `115200`

6 `57600`

7 `38400`

8 `19200`

3 `PArity` ↵ **1** `nonE` ⚙   No parity, 8 data bits, 1 stop bit.

2 `EUEn`   Even.

3 `odd`   Odd.

4 `bit` ↵ **1** `8` ⚙   8 bits.

2 `7`   7 bits.

5 `StoP` ↵ **1** `1` ⚙   1 stop bits.

2 `2`   2 stop bits.

LEGEND:

▼   *Indicates repeated pressing of the ▼ key.*

👁   *Parameter visible only under certain conditions.*

🔒   *Parameter or menu subject to approval.*

⚙   *Default value of the parameter.*

🏠 ⚙

DINI ARGEO
Scales - Weighing systems

Optimized layout for A4 print

Standard string

[01]ST,GS,   0.0,kg<CR><LF>

Where:

01	Transmitter code 485 *(2 characters)*, only if communication mode 485 is enabled
ST	Scale status *(2 characters)*: US - Unstable weight ST - Stable weight OL - Weight overload *(out of range)* UL - Weight underload *(out of range)*
,	Character ASCII 044
GS	Type of weight data *(2 characters)* GS - Gross NT - Net VL - Microvolts RZ - Converter points
,	Character ASCII 044
0.0	Weight *(8 characters including the decimal point)*
,	Character ASCII 044
kg	Unit of measurement *(2 characters)*
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

Extended string

[01]1ST,1,   0.0,PT   20.8,   0,kg,01/02/19 11:12:13<CR><LF>

Where:

01	Transmitter code 485 *(2 characters)*, only if communication mode 485 is enabled
1	Number of the active scale
ST	Scale status *(2 characters)*: US - Unstable weight ST - Stable weight OL - Weight overload *(out of range)* UL - Weight underload *(out of range)*
,	Character ASCII 044
0.0	Weight *(8 characters including the decimal point)*
,	Character ASCII 044
PT	Preset tare indication
20.8	Tare *(8 characters including the decimal point)*
,	Character ASCII 044
0	Character ASCII 048
,	Character ASCII 044
kg	Unit of measurement *(2 characters)*
,	Character ASCII 044
01/02/19 11:12:13	dd/mm/yy hh:mm:ss (only with REXD command and optional clock card)
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

Multi-scale string

[01]ST,   612,kg,ST,   61.4, t,ST,   6.17, g,ST,   0.617,lb

Where:

01	Transmitter code 485 *(2 characters)*, only if communication mode 485 is enabled
ST	Scale 1 status *(2 characters)*: US - Unstable weight ST - Stable weight VL - Microvolts RZ - Converter points
,	Character ASCII 044
612	Scale 1 weight *(8 characters including the decimal point)*
,	Character ASCII 044
kg	Scale 1 unit of measurement *(2 characters)*
,	Character ASCII 044
ST	Scale 2 status *(2 characters)*: US - Unstable weight ST - Stable weight VL - Microvolts RZ - Converter points
,	Character ASCII 044
61.4	Scale 2 weight *(8 characters including the decimal point)*
,	Character ASCII 044
t	Scale 2 unit of measurement *(2 characters)*
,	Character ASCII 044
ST	Scale 3 status *(2 characters)*: US - Unstable weight ST - Stable weight VL - Microvolts RZ - Converter points
,	Character ASCII 044
6.17	Scale 3 weight *(8 characters including the decimal point)*
,	Character ASCII 044
g	Scale 3 unit of measurement *(2 characters)*
,	Character ASCII 044
ST	Scale 4 status *(2 characters)*: US - Unstable weight ST - Stable weight VL - Microvolts RZ - Converter points
,	Character ASCII 044
0,617	Scale 4 weight *(8 characters including the decimal point)*
,	Character ASCII 044
lb	Scale 4 unit of measurement *(2 characters)*
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

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Serial commands

By selecting the PC port on demand mode (ɒndE), you can communicate with the indicator via serial commands.
For each command received, the indicator emits a string containing the response (refer to the command description) or one of the following signals:

OK<CRLF>	Command sent when sending a correct command. This response does not imply that the command is executed.
ERR01<CRLF>	Command sent correctly but followed by letters entered unintentionally (e.g. READF, TARES).
ERR02<CRLF>	Incorrect command data.
ERR03<CRLF>	Command sent not allowed (indicator busy, or not used in the selected operating mode).
ERR04<CRLF>	Command sent non-existent.

> *i* If the 485 protocol has been selected, you must precede the command with the indicator address (e.g. 01READ).

WEIGHT READING (standard string)

Format	R	E	A	D
Response	Standard string.			

READING OF THE EXTENDED OR MULTI-SCALE WEIGHT (if ŁYPE = ŁrAnSΠ)

Format	R	E	X	T
Response	Extended string.			

WEIGHT READING IN HIGH RESOLUTION (X10)

Format	G	R	1	0
Response	Standard string with weight in resolution x10.			

AUTOMATIC TARE

Format	T	A	R	E
Response	OK (or ERRxx).			

MANUAL TARE

Format	T	M	A	N	t	t	t	t	t	t
Where	tttttt			tare value						
Response	OK (or ERRxx).									

By entering a manual tare value of 0, the tare on the scale is cleared.

ZEROING (of active channel)

Format	Z	E	R	O
Response	OK (or ERRxx).			

DISABLING KEYPAD

Format	K	E	Y	E	D
Response	OK (or ERRxx).				

ENABLING KEYPAD

Format	K	E	Y	E	E
Response	OK (or ERRxx).				

READING INPUTS

Format	I	N	P	U	n			
Where	n		Input (1 / 2).					
Response	I	N	P	U	n	v	v	v	v
Where	n	Input number.						
	vvvv	Input status: 0000 = Not active. 0001 = Active. FFFF = Input reading error.						

READING OUTPUTS

Format	O	U	T	S	n			
Where	n		Output (1 / 2).					
Response	O	U	T	S	n	v	v	v	v
Where	n	Output number.						
	vvvv	Output status: 0000 = Not active. 0001 = Active. FFFF = Output reading error.						

PRESSING A KEY

Format	K	E	Y	P	x	x
Where	xx		Key code.			
	00		▼			
	01		▲			
	02		▶			
	03		↵			
	04		**C**			

Response	OK (or ERRxx).

> ℹ To simulate pressing a key, you must send the KEYP and KEYR commands in succession.
> If more than 1.5 s pass after the KEYP command is sent, the indicator will execute the function associated with prolonged pressing of the key.

RELEASING A KEY

Format	K	E	Y	R
Response	OK (or ERRxx).			

BRIDGE BETWEEN THE SERIAL PORTS

Format	B	R	I	D	G	E	1
Response	OK (or ERRxx).						

SCALE INFORMATION

Format	R	A	L	L																						
Response	s	s	,	b	,	N	N	N	N	N	N	u	u	,	L	L	L	L	L	L	u	u	,			
	Y	Y	T	T	T	T	T	T	u	u	,	S	S	S	,	A	A	A	,	C	C	C	C			
	,	,	R	R	R	R	R	-	I	I	I	I	I	I												

Where		
	ss	UL = Underload. OL = Overload. ST = Stable weight. US = Unstable weight.
	b	Number of the active scale.
	NNNNNNuu	Net weight with unit of measurement.
	LLLLLLuu	Gross weight with unit of measurement.
	YY	PT if a manual tare is present or " ".
	TTTTTTuu	Tare with unit of measurement.
	SSS	Scale status: 000 = scale weighing. 001 = entering a numerical value. 002 = scale in technical menu.
	AAA	Counter keys pressed: 0001 = ▼ 0002 = ▲ 0003 = ▶ 0004 = ↵ 0170 = **C**
	CCCC	Code of last key pressed.
	RRRRR	Last rewrite number saved to Alibi memory.
	IIIIII	Last ID number saved to Alibi memory.

Optimized layout for A4 print

READING OF MICROVOLTS

Format	M	V	O	L
Response	Standard string.			

READING OF CONVERTER POINTS

Format	R	A	Z	F
Response	Standard string.			

INITIALISING ALIBI MEMORY

Format	A	L	D	L
Response	ALDLOK / ALDLNO			

WEIGHT READING WITH DATE AND TIME

Format	R	E	X	D
Response	Extended string.			

READING A WEIGHING OPERATION IN THE ALIBI MEMORY

Format	A	L	R	D	X	X	X	X	X	-	Y	Y	Y	Y	Y	Y
Response	b	,	L	L	L	L	L	L	L	L	L	L	u	u	,	
	Y	Y	T	T	T	T	T	T	T	T	T	T	u	u		

Where		
	b	Scale number.
	LLLLLLLLLLuu	Gross weight with unit of measurement.
	YY	"PT if a manual tare is present or " ".
	TTTTTTTTTTuu	Tare with unit of measurement.

SAVING A WEIGHING OPERATION IN THE ALIBI MEMORY

Format	P	I	D																			
Response	P	I	D	S	T	,	b	,	L	L	L	L	L	L	L	L	L	L	u	u	,	Y	Y
	T	T	T	T	T	T	T	T	T	T	u	u	,	X	X	X	X	X	-	Y	Y	Y	Y
	Y	Y																				

Where		
	b	Scale number.
	LLLLLLLLLLuu	Gross weight with unit of measurement.
	YY	"PT if a manual tare is present or " ".
	TTTTTTTTTTuu	Tare with unit of measurement.
	XXXXX	Rewrite number.
	YYYYYY	ID number.

ℹ️ The alibi memory commands are executed only if $FunCt = ALibi$.

In TRANSM mode, if the commands **"ZERO"**, **"TARE"** and **"TMAN"** are followed by "**,X**", the command is executed only on the indicated scale. For example:

Format	T	A	R	E	,	X
Where	X		Scale: 0 = scale 1 1 = scale 2 2 = scale 3 3 = scale 4			
Response	OK (or ERRxx).v					

Format	Z	E	R	O	,	X
Where	X		Scale: 0 = scale 1 1 = scale 2 2 = scale 3 3 = scale 4			
Response	OK (or ERRxx).v					

📖 The Modbus protocol and the Fieldbus protocols are described in the respective manuals.

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Diagnostics

`888888` ▲ Ⓐ `tYPE`
⬇
Ⓓ `d iAG`
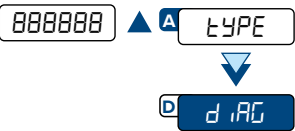
Cells / converter test

4 `AdC.uU`
Display of the µV related to the weight on the scale.
Use the ▲ and ▼ keys to display the different channels (in `dEP.Ch` mode the sum is also visible).

For correct operation, the value of the µV of each channel must be less than 30000 with a weight equal to the maximum capacity. This value must be stable, and increase if a load is applied to the cell.

5 `AdC.Pnt`
Display of the A/D points of the converter related to the weight on the scale.
Use the ▲ and ▼ keys to display the different channels (in `dEP.Ch` mode the sum is also visible).

For correct operation, the value of A/D points must be stable, and increase if a load is applied to the cell.

Firmware release

1 `PrG.UEr`
Display of firmware release (e.g. `08.04.00`).

Serial number

15 `SEr.nuM`
Display of indicator serial number.

Display

8 `d iSPLA`
Activation of all display segments and indicators.

Keypad

9 `KEYb`
The code of last key pressed is shown on the display:

▼	8001
▲	8002
▶	8003
↵	8004
C	80AA

Press the same key 3 consecutive times to exit.

Optimized layout for A4 print

Serial ports

10 `SEr` — Bridge between serial ports (for manufacturer's use).

CTS signal

11 `CtS.St.` — Checking the CTS signal of the printer (on) connected to the PRN port.

Inputs

13 `inPutS` — Checking the status of the inputs:
value 0 indicates that the input is disabled, value 1 indicates that the input is enabled.
Use the ▲ and ▼ keys to display the two inputs.

Outputs

12 `outPut` — Activation of the output shown on the display (`rEL.1`/`rEL.2`).
Use the ▲ and ▼ keys to activate the two outputs.

Analog output

14 `An.out` — Analog output test.
Use the ▲, ▼, ▶ keys to enter the D/A point value of the analog output.
Press the ↵ key to confirm and update the V / mA value of the analog output.
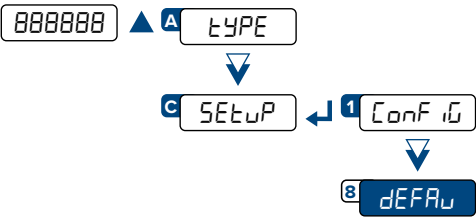
Programming the Setpoints

In weighing mode, if the output functions (`1 GroSS`/`2 nEt`) have been set correctly, pressing ↵ **for 3 seconds** will enter the setpoint programming menu:

👁 visible only if `rL.iSt = iSt.on`

`0.000` ↵ **3s** `S.1 on` — Output 1 activation value.

▼ `S.1 oFF` — Output 1 deactivation value.

▼ 👁

`S.2 on` — Output 2 activation value.

👁 visible only if `rL.iSt = iSt.on`

▼ `S.2 oFF` — Output 2 deactivation value.

👁
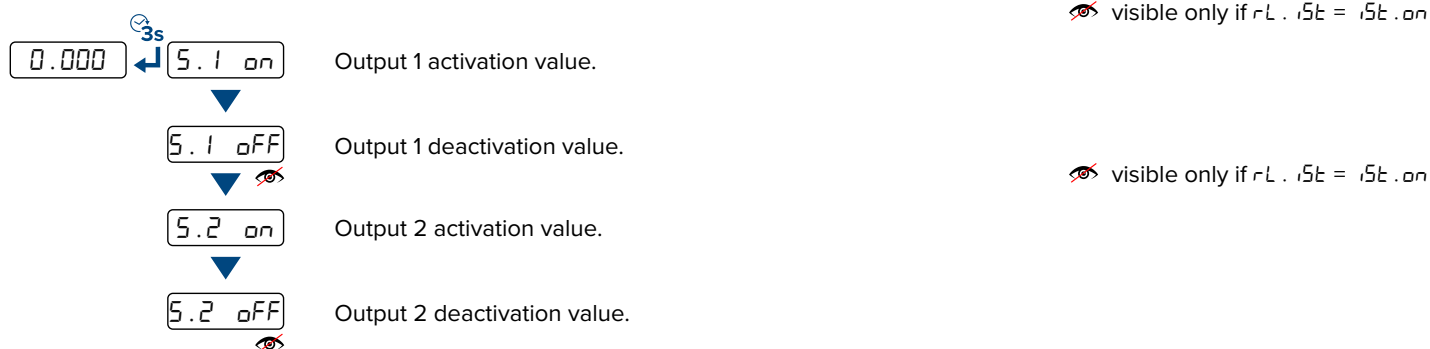
Once you have entered the desired values, press **C**. The display shows "`StorE`" and returns to weighing mode.

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Restoring factory settings

`888888` ▲ **A** `tYPE`

▽

C `SEtuP` ↵ **1** `ConFiG`

▽

8 `dEFAu`
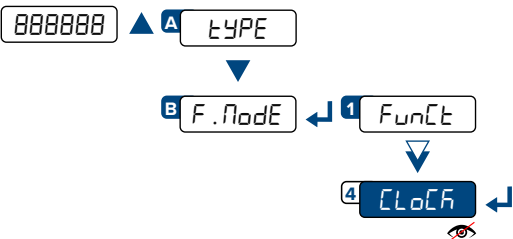
The indicator is initialized and the default parameters (indicated by the ⚙ symbol) are activated. Pressing ↵ the display shows "*dFLt?*" confirm further with ↵ or exit by pressing another key.

The actual activation of the default parameters is performed by saving the settings (*SAUE?*) while exiting the menu.

Date and time setting

`888888` ▲ **A** `tYPE`

▼

B `F.ModE` ↵ **1** `FunCt`

▼

4 `CloCh` ↵

👁̶

👁̶ *Visible only with optional clock card*

`dAY`	Set the day and press ↵.
`Month`	Set the month and press ↵.
`YEAr`	Set the year (with two digits) and press ↵.
`hour`	Set the hour and press ↵. The time format is 24h.
`MinutE`	Set the minutes and press ↵.

i

The date and time format is: DD/MM/YY, HH:MM:SS (24h),

LEGEND:

▼ *Indicates repeated pressing of the ▼ key.*

👁̶ *Parameter visible only under certain conditions.*
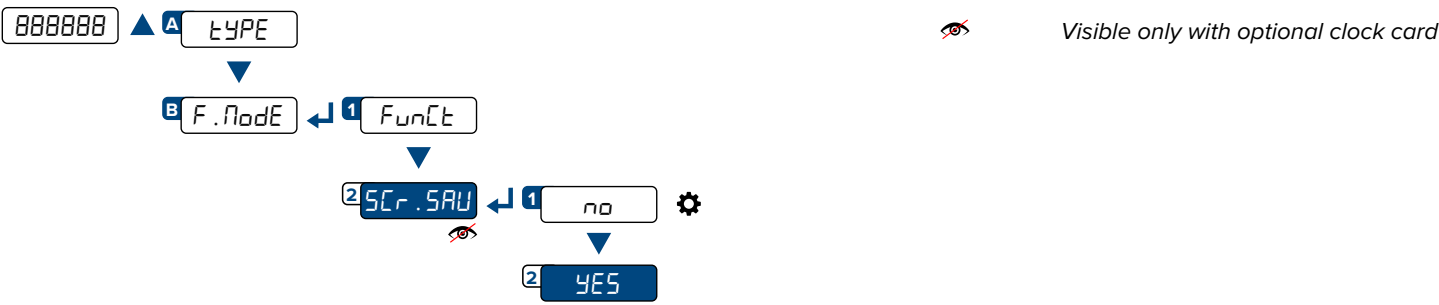
🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*
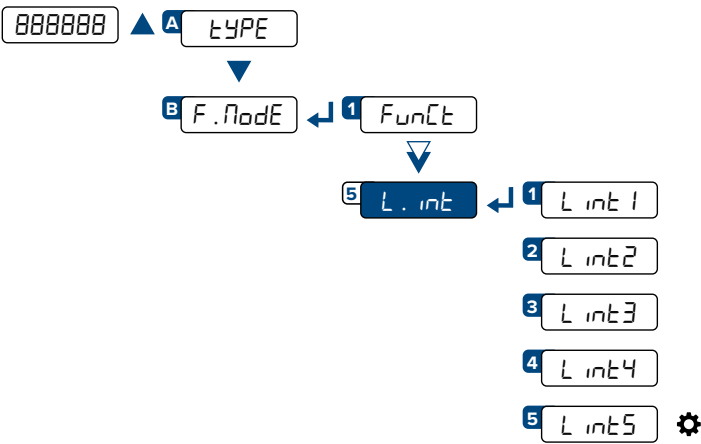
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Screen saver

888888 ▲ **A** `EYPE`

B `F.ṄodE` ↵ **1** `FunEE`

2 `SEr.SAU` ↵ **1** `no` ⚙

2 `YES`

Set the time value in minutes (1 to 255) after which the indicator shows the time, in HH.MM.SS format. As soon as a weight change is detected or a key is pressed, the indicator displays the current weight again.
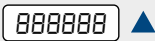
Backlight intensity

888888 ▲ **A** `EYPE`

B `F.ṄodE` ↵ **1** `FunEE`

5 `L.inE` ↵ **1** `L inE 1`

2 `L inE2`

3 `L inE3`

4 `L inE4`

5 `L inE5` ⚙

When any key is pressed, the brightness level is momentarily set to `L.inE`. If no other key is pressed within 10 seconds, the brightness returns to the selected value.
You can adjust the brightness level directly while weighing by holding down the ▼ key.
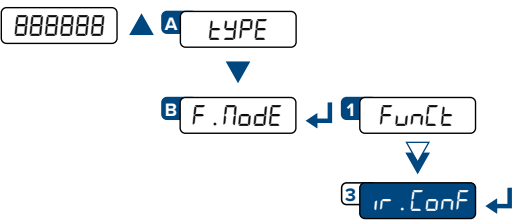
MENU ACCESS:

888888 ▲ *Press the ▲ key during the start-up procedure.*

SAVING THE PARAMETERS:

Press the **C** *key several times, until the display shows* `SAUE?`*. Press the ↵ key to confirm.*

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Remote control configuration

`888888` ▲ **A** `tYPE`
▼
B `F.ModE` ↵ **1** `FunCt`
▽
3 `ir.ConF` ↵

1 `nonE` ⚙ Remote control disabled.

2 `ir 1` All the remote control keys work as the ▲ key. (Infrared)

3 `ir 4` The remote control keys work as ▼, ▲, ▶ and ↵ keys. (Infrared)

4 `rd 1` All the remote control keys work as the ▲ key. (Radio)

5 `rd 6` The remote control keys work as ▼, ▲, ▶ , ↵ and **C**. (Radio)

6 `rd.br 1` All the remote control keys work as the ▲ key. (Radio broadcast)

7 `rd.br 6` The remote control keys work as ▼, ▲, ▶ , ↵ and **C**. (Radio broadcast)

> **i**
>
> In the `rd 1` and `rd 6` configurations it's possible to combine 3 remote controls.
> In the `rd.br 1` and `rd.br 6` configurations all the radio remote controls provided by Dini Argeo work with the instrument.

It is possible to combine a new remote control by pressing and holding (3 seconds) TARE and ZERO key.
When the instrument displays `Aut.rd?` by pressing the ENTER key of the keyboard, the new remote control is recognized. With **C** key of the keyboard, if the serial number exits, the remote control is removed.

Auto switch-off

`888888` ▲ **A** `tYPE`
▼
B `F.ModE` ↵ **1** `FunCt`
▽
8 `Aut.oFF` ↵ **1** `diSAb` ⚙
👁̸ ▼
2 `EnAb`

👁̸ *Visible only with optional clock card*

Set the time value in minutes (1 to 255). If the scale is left without load and no key is pressed during the set time, the indicator turns off automatically.

LEGEND:

▽ *Indicates repeated pressing of the ▼ key.*

👁̸ *Parameter visible only under certain conditions.*

🔒 *Parameter or menu subject to approval.*

⚙ *Default value of the parameter.*

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Alarms

Alarm	Description	
PrEC	Displayed if you try to calibrate a point without first confirming the number of calibration points (n EP).	
Er.Mot	Calibration error: unstable weight during point acquisition.	
ErPnt	Calibration error: during the acquisition of a calibration point a NULL value was read from the converter.	
Err.H.1	Error that occurs if the capacity of channel H is not set, or there is an error in the calibration parameters of channel H, where H indicates the number of the channel to which the error refers.	
oUEr H	Error that occurs if the capacity of channel H is not set, or there is an error in the calibration parameters of channel H, where H indicates the number of the channel to which the error refers.	
Er 11	Calibration error: a sample weight that is too low was used; it is recommended to use a weight of at least half the scale's capacity.	
Er 12	Calibration error: The acquired calibration point (EP 1 / EP 2 / EP 3) is equal to the zero point (EP0).	
Er 37	Scale to be calibrated (we recommend resetting the indicator to the factory default "dEFAu" settings before proceeding).	
Er 39	Scale to be calibrated (we recommend resetting the indicator to the factory default "dEFAu" settings before proceeding).	
C.Er. -36	Negative internal points were calculated during calibration: • the calibration point is below the zero point; • The signal is negative (check the connections).	
C.Er. -37	Internal points below the minimum value were calculated during calibration: • the calibration point is equal to the zero point; • too high a capacity has been set with respect to the division.	
hY.Err	Hardware error: software not compatible with the installed hardware.	
AL.Err	Displayed when the alibi memory is enabled and the indicator does not detect the presence of the card when the power is turned on. The ConU function is set automatically, but not saved in the setup environment.	
buSY	Printing in progress (printer serial port busy) or indicator waiting to transmit a print to PC.	
unStAb	You are trying to print with an unstable weight.	
un.oUEr	You are trying to print with the weight in underload or overload.	
------	The weight is overloaded (9 divisions over the maximum capacity).	
------	The weight is underloaded.	Approved instrument: -100 divisions.
		Non-approved instrument: -maximum capacity -9 divisions.
GroS.Er	You are trying to print with a non-positive gross weight (less than or equal to zero).	
nEr.Err	You are trying to print with a non-positive net weight (less than or equal to zero).	
LoU	Net weight less than the minimum weight required for printing.	
no.0.unS	Weight not passed by net 0 or instability.	
ConU	You are trying to print while the indicator is converting the unit of measurement.	
Err.CLA	Communication problems with the clock card of the indicator.	

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Notes

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USER_MAN_ENG_DGT100_V8

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