DINI ARGEO

A RICE LAKE WEIGHING SYSTEMS COMPANY

DFWIECEX

🏠 TABLE OF CONTENTS

CONTENTS BY TOPIC

1. INTRODUCTION AND WARNINGS

This product is the best solution for multifunctional weighing applications in Ex environments.

This manual provides an overview of the potentials of the product. The configuration menu can be used to adapt the product functionality to the required weighing application.

> ⚠️ **WARNINGS:**
>
> Installation and electrical precautions to be followed are indicated in the Ex safety manual enclosed with the product.

2. TECHNICAL FEATURES

IECEx marking	Ex ib [ib Gb] [ia Ga] IIC T4 Gb Ex tb [ib Db] [ia Da] IIIC T135°C Db Ta 0°C/+50°C
Atex marking	II 2G, II 2D
Power supply	6 - 9.6 Vdc (external power supply or battery)
Operating time (battery powered)	up to 80 h
Analogue channels for load cell reading	4
Connectable cells	8, 350 Ω
Load cell power supply	5V
Converter	XCore, up to 2600 conv./sec.
Maximum operating temperature range CE-M - OIML	0 °C + 40°C
Maximum operating temperature range	0 °C + 50°C
OIML divisions	10000e / 3x3000e (multi-range)
Divisions for internal factory use	100d... 800.000d
Optional Digital Relays (IECEX4IN4OUT or IECEX8OUT)	4 / 8 / 12 Ui: 18 V Ri: 214 Ω R input: 859 Ω
Optional Digital Inputs (IECEX4IN4OUT)	4 / 8 Ui: 18 V Pi: 1.75 W In: 70 mA
Optional analogue output	0 - 10 Vdc, 0 - 20 mA, 4 - 20 mA
Serial ports 485	1 standard, 2 optional (485IECEX)
Bluetooth wireless connectivity (BTH-IECEX)	1
Display	High-contrast RGB with 6 digits, 25 mm high
Case	Stainless steel, IP65 Dimensions: 280x143x185 mm

ⓘ *All communication interfaces are certified for use in hazardous areas*

3. APPROVAL

a.

b.

c.

d.

e.

CAL

CAL

CAL
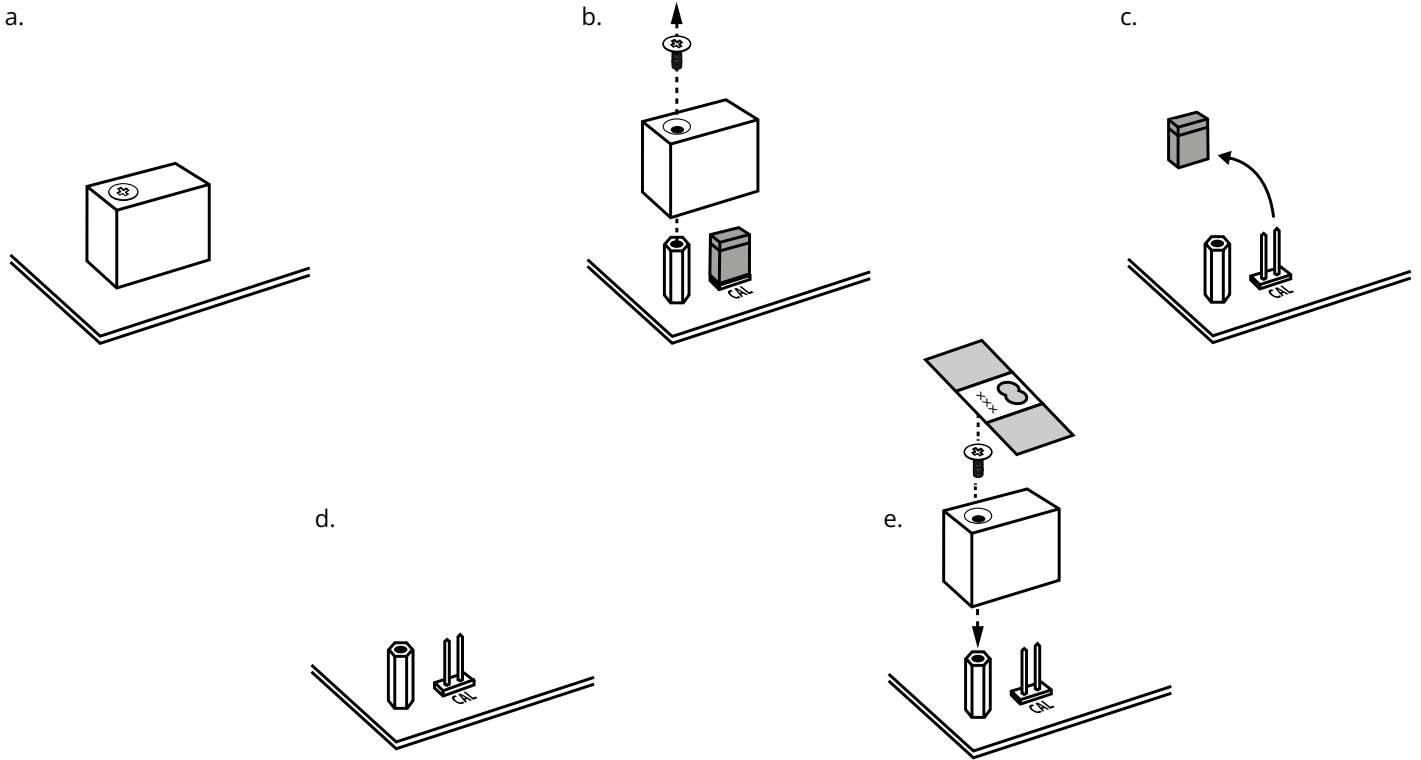
How to display the metrological version of the instrument

1. Turn off the scale

```
0.0
```

2 sec. C

```
-oFF-
```

2. Follow the procedure:

C Turn on the scale and press the key ⊕ during display of the power messages.

```
888888
```

⊕ → ```HH.HH``` Metrological version

```HH.HH.HH``` Weighing program version

```
ПAH
```
...
```
0.0
```

...
```
0.0
```

4. CONNECTIONS

Single-channel

Connect the scale to the main terminal block using the first reading channel of the A/D converter.

Reference terminal block for 1-channel connection

NOTES:
- For 6-wire connection with "Sense", set the "REFERENCE" dip switches to OFF.
- For 4-wire connection, set the "REFERENCE" dip switches to ON.

⚠️ **WARNING:** Make connections with indicator off and power supply disconnected.
Observe the electronic specifications in the Ex safety manual.

Multi-channel with digital equalisation

The 4 channels of the converter can be used to connect 2, 3 or 4 cells, digitally equalising them without using junction boxes.

Reference terminal blocks for 4-channel connection

NOTES:
• Set the "REFERENCE" dip switches to ON.

WARNING: Make connections with indicator off and power supply disconnected.
Observe the electronic specifications in the Ex safety manual.

5. PROGRAMMING

How to access the programming menu

1. Turn off the scale

```
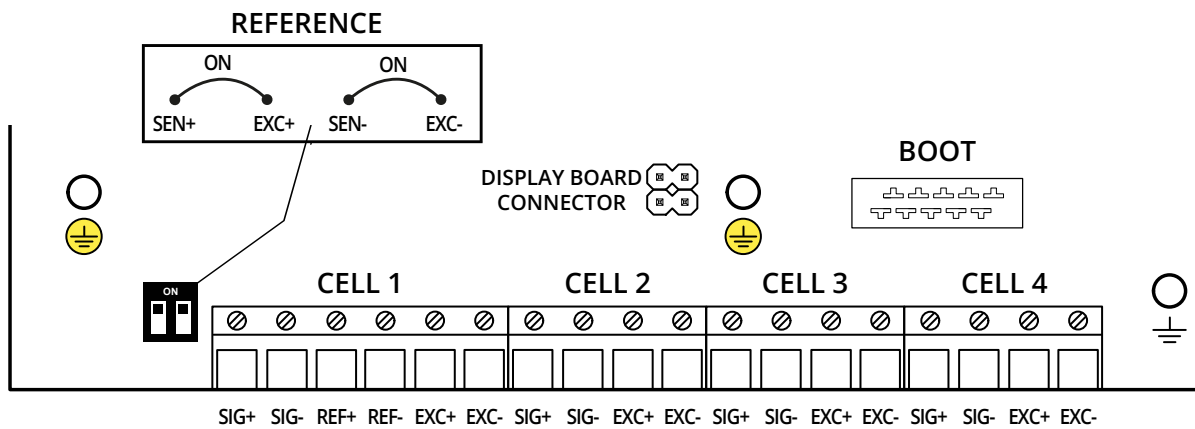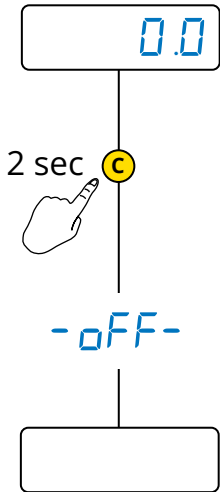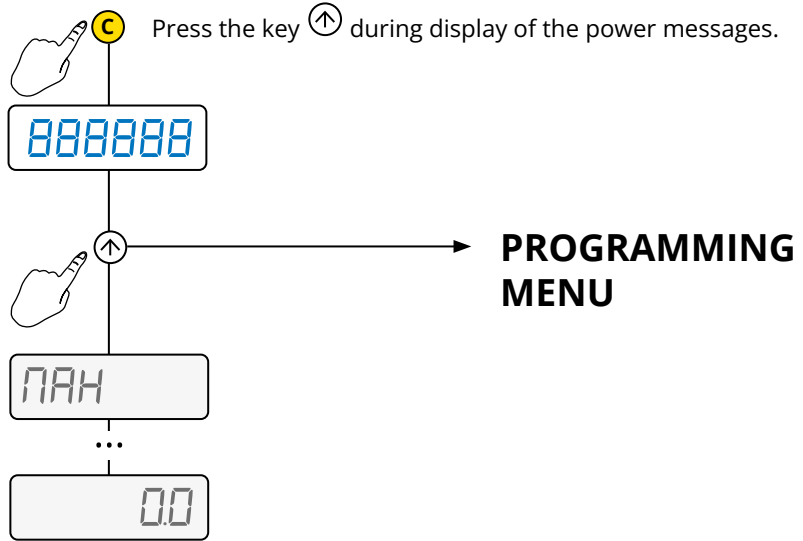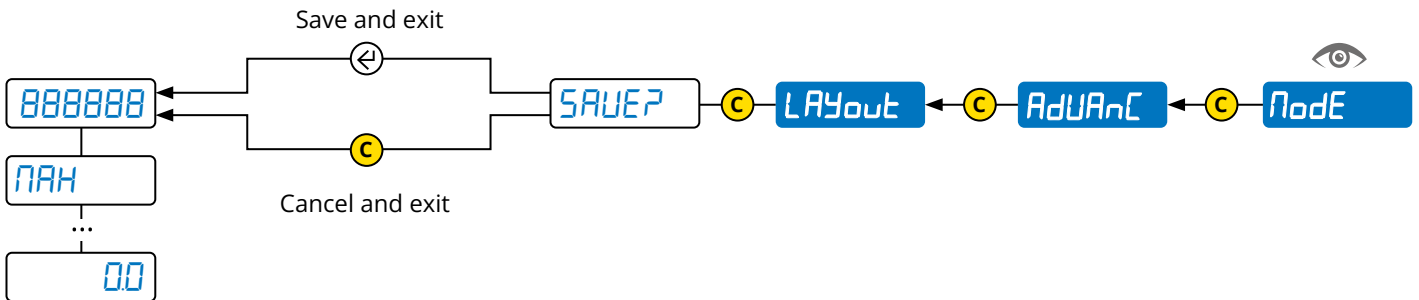   0.0
```

2 sec ⓒ

```
 -oFF-
```

2. Follow the procedure:

ⓒ Press the key ⊕ during display of the power messages.

```
888888
```

⊕ ──────────▶ **PROGRAMMING MENU**

```
NAH
```
...
```
   0.0
```

💾 **How to save the programming and exit the menu**

To save the programming changes made, repeatedly press the key ⓒ browsing the menu in reverse, until the message *SAUE?* appears: press ⏎ to save or ⓒ to exit without saving.

Example *(read from right to left)*:

Save and exit
⏎

```
888888
```
```
NAH
```
...
```
   0.0
```

Cancel and exit
ⓒ

SAUE? ◀ⓒ◀ **LAYout** ◀ⓒ◀ **AdVAnC** ◀ⓒ◀ **NodE**

⚙ PROGRAMMING MENU

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

1. Off ⏻
2. On ⏻
3. ⬆

↕ = ⬆
↕ = ⬇
→ = ↵
← = **C**

💾

ⓘ　　　ⓘ

A CAL	→
B O.CAL	**1** d iU
C GrAU	
D SEr iAL	
E LAYout	
F F iLtEr	
G SCrEEn	
H bAtt	
I AutoFF	
J An.out	
K inPutS	
L outPut	
M rESEt	
N d iAG	
O AdUAnC	

🏠 ⚙

CAL Quick calibration

Start of the calibration procedure:
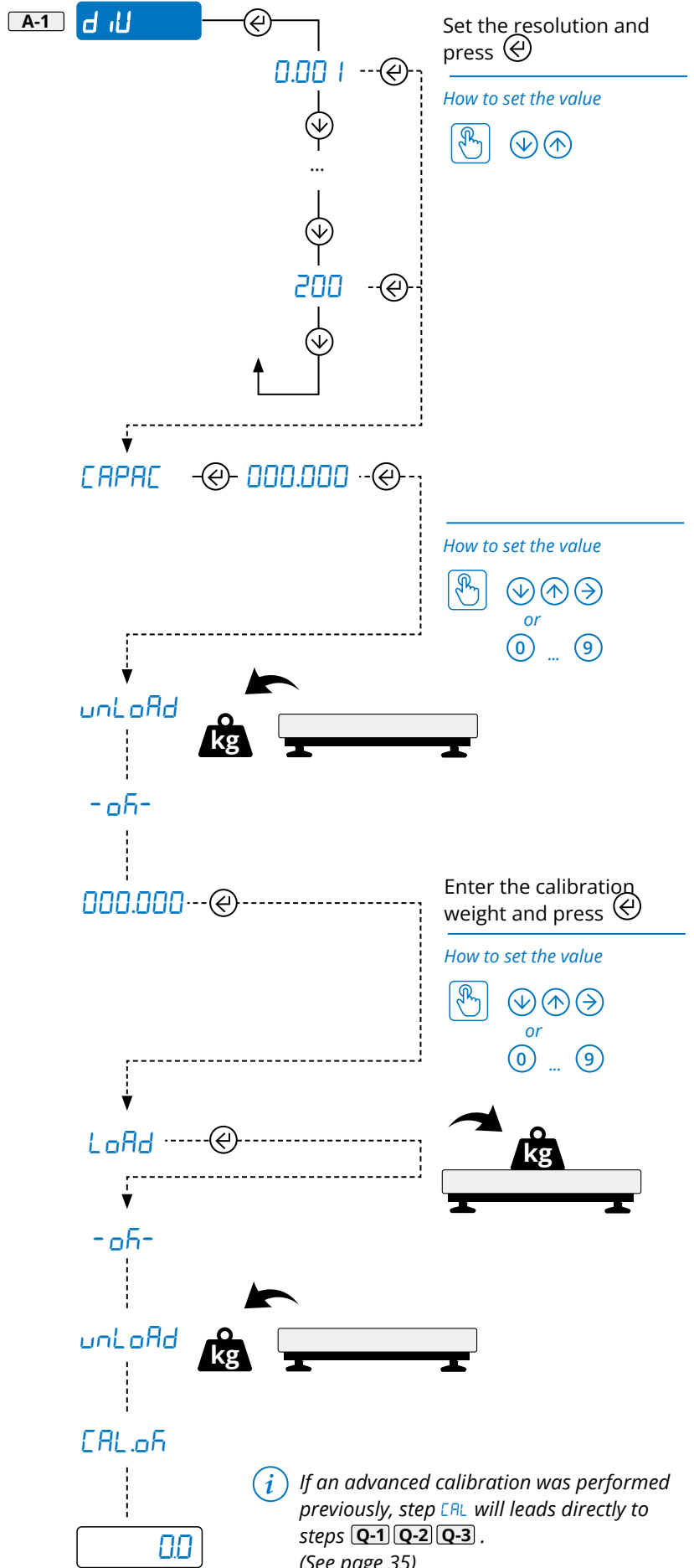
A-1 d iU ↵

0.001 ↵ → Set the resolution and press ↵

How to set the value
👆 ⬇ ⬆

…

⬇

200 ↵

⬇

CAPAC — ↵ — 000.000 — ↵

How to set the value
👆 ⬇ ⬆ →
or
⓪ … ⑨

unLoAd 🏋kg

- oñ -

000.000 — ↵ → Enter the calibration weight and press ↵

How to set the value
👆 ⬇ ⬆ →
or
⓪ … ⑨

LoAd — ↵ 🏋kg

- oñ -

unLoAd 🏋kg

CAL.oñ

0.0

ⓘ *If an advanced calibration was performed previously, step* CAL *will leads directly to steps* Q-1 Q-2 Q-3 .
(See page 35)

MENU

1. Off ⏻
2. On ⏻
3. ⬆

ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = C

💾 ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FILtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	InPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

🏠 ⚙

O.CAL   Zeroing the pre-tare   🅼🔒

Acquisition of the zero point

B O.CAL --↵-- SurE? --↵-- -oh-
GrAU ◀------------------------
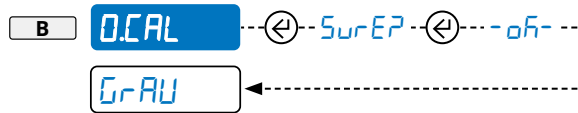
GrAU   Area of gravity of the place of use   🅼🔒

Once the calibration is completed, for proper operation set the area of use in this pitch (if different from that of calibration).

C GrAU --↵-- 9.80390 --↵--
SErIAL ◀------------------

Area of gravity
(9.75001...9.84999)

How to set the value

👆 ⬇ ⬆ →
or
⓪ ... ⑨

MENU

1. Off ⏻
2. On ⏻
3. ⊕
ⓘ

↕ = ⊕
↕ = ⊗
→ = ⊕
← = **C**

💾

ⓘ

A CAL			
B O.CAL			
C GrAU			
D SErIAL			
E LAYout	**1** CoN.PC	**1** NodE	
F FILtEr	**2** CoN.Prn	**2** ProtoC	
G SCrEEn	**3** AuH.1	**3** CoN.SEL	
H bAtt	**4** AuH.2	**4** bAud	
I AutoFF	**5** AdUAnC	**4** bit	
J An.out			
K inPutS			
L outPut			
M rESEt			
N dIAG			
O AdUAnC			

SErIAL Configuration of the serial ports

CoN.PC Communication with PC, PLC or Repeater

Selection of the communication mode

D-1-1 NodE ⊕

- ondE — On demand (*)
- 485 / 00 — On demand with code 485 (0...99)
- Cont in — Continuous transmission (8 tx /sec)
- StAbLE — Automatic stability transmission
- Print.ℎ — Transmission at the pressure of ⊕
- rEPE 6 — For repeater
- Nodbu5 — For use by the manufacturer

CoN.SEL

Selection of the protocol:

D-1-2 ProtoC ⊕

- EHtEnd
- Short
- CuStoN

bAud

Visible only if NodE = Cont in, StAbLE *or* Print.ℎ
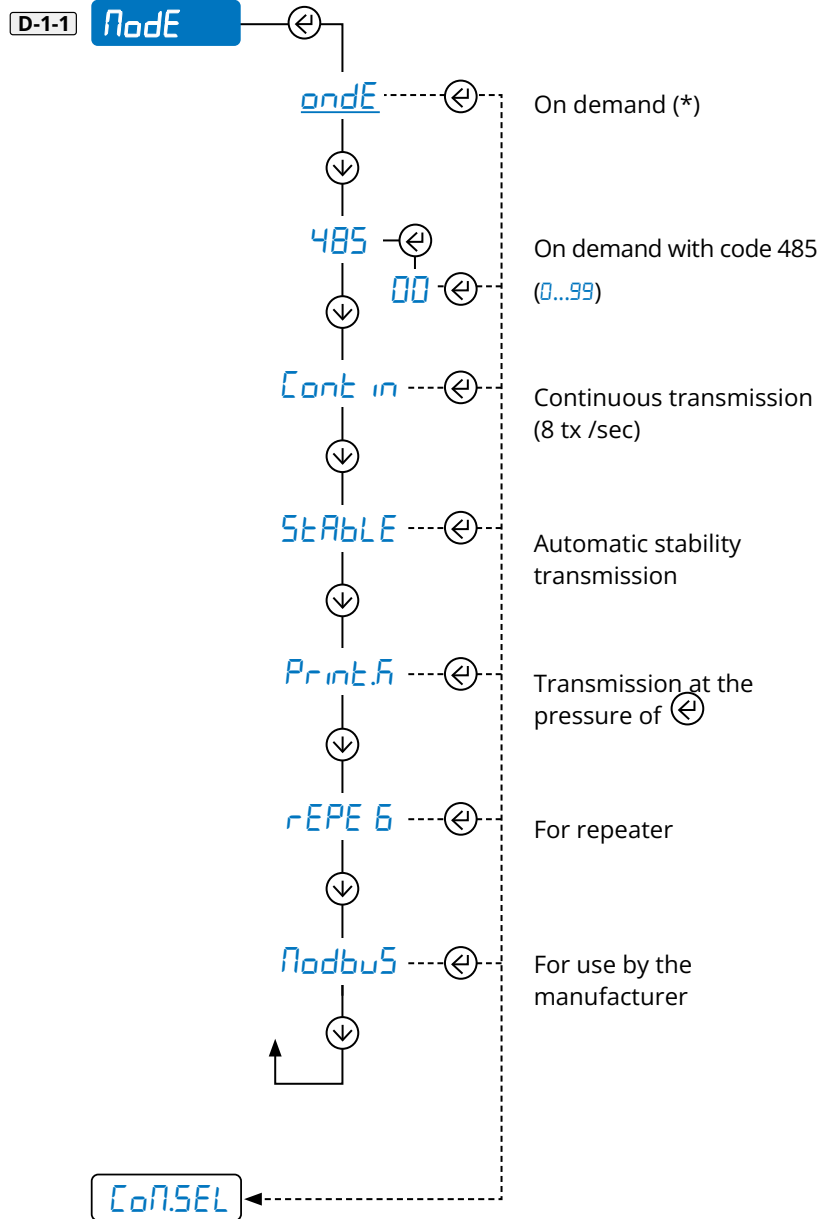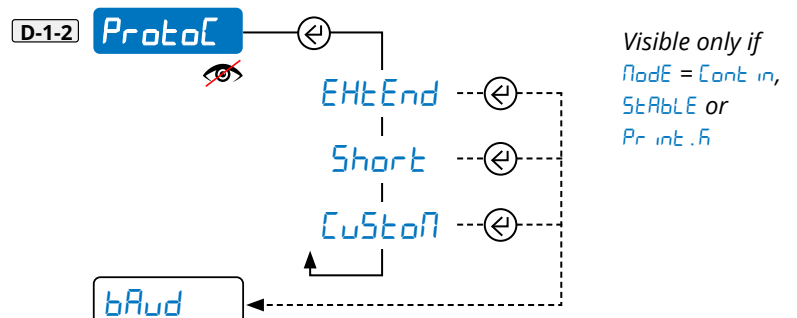
ⓘ *For available protocols see page 43.*

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ⏎
← = C

💾

ⓘ

A CAL
B O.CAL
C GrAU
D SErIAL
E LAYout
F FiLtEr
G SCrEEn
H bAtt
I AutoFF
J An.out
K inPutS
L outPut
M rESEt
N dIAG
O AdUAnC

1 CoN.PC
2 CoN.Prn
3 AuH.1
4 AuH.2
5 AdUAnC

1 NodE
2 ProtoC
3 CoN.SEL
4 bAud
5 bit
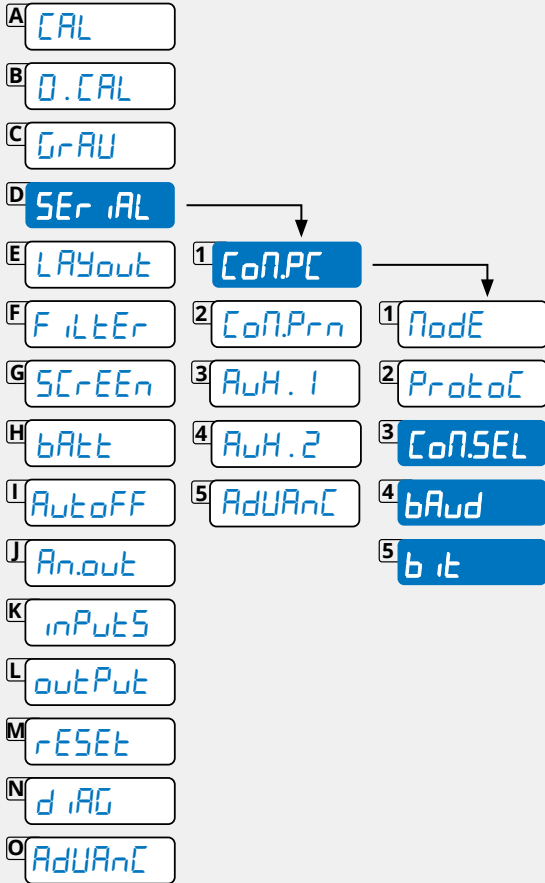
COM port selection for PC / PLC connection

D-1-3 CoN.SEL ⏎

CoN1 ⏎
⬇
...
⬇
CoN4 ⏎
⬇
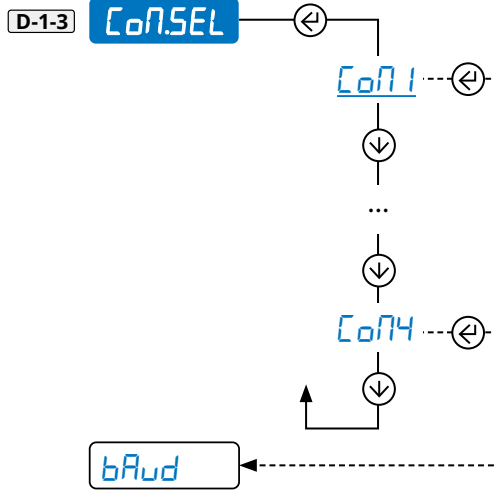
bAud

COM1, COM2 and COM3 are physically present on the CPU board of the indicator through the expansion boards. COM4 is used for communication with the Bluetooth BLE module.

Communication speed (Baud rate)

D-1-4 bAud ⏎

1200 ⏎
⬇
...
⬇
9600 ⏎
⬇
115200 ⏎
⬇

bit

Configuration of the serial protocol

D-1-5 bit ⏎

n.8.1 ⏎
⬇
n.8.2 ⏎
⬇
... ⏎
⬇
E.7.2 ⏎
⬇

NodE

13

MENU

1. Off ⏻
2. On ⏻
3. ⟰
ⓘ

↕ = ⟰
↕ = ⟱
→ = ⏎
← = **C**

💾

ⓘ

A CAL	
B O.CAL	
C GrAU	
D SErIAL	
E LAYout	**1** CoN.PC
F FiLtEr	**2** CoN.Prn
G SCrEEn	**3** AuH.1
H bAtt	**4** AuH.2
I AutoFF	**5** AdUAnC
J An.out	
K inPutS	
L outPut	
M rESEt	
N diAG	
O AdUAnC	

From CoN.Prn (2):
1 NodE
2 ProtoC
3 bAud
4 bit
5 CtS
6 PoHEr.P

🏠 ⚙

CoN.Prn   Communication with printer or repeater or PC

Selection of the communication mode

D-2-1 NodE ⏎
- tiCHEt ⏎ ···· Thermal printer
- ⟱
- LAbEL ⏎ ···· Labeller
- ⟱
- Cont in ⏎ ···· Continuous transmission (8 tx/sec)
- ⟱
- StAbLE ⏎ ···· Automatic stability transmission
- ⟱
- to PC ⏎ ···· Manual transmission of string for PC when pressing ⏎
- ⟱
- rEPE.6 ⏎ ···· For repeater
- ⟱
ProtoC ◄

Selection of the protocol:

D-2-2 ProtoC ⏎
👁̸
- EHtEnd ⏎
- Short ⏎
- CuStoN ⏎
bAud ◄

Visible only if NodE = Cont in, StAbLE *or* Print.6

ⓘ *For available protocols see page 43.*

Communication speed (Baud rate)

D-2-3 bAud ⏎
- 1200 ⏎
- ⟱
- ... ⏎
- ⟱
- 9600
- ⟱
- 115200 ⏎
- ⟱
bit ◄

14

MENU

1. Off ⏻
2. On ⏻
3. ⬆

↑ = ⬆
↓ = ⬇
→ = ⏎
← = **C**

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	diAG
O	AdUAnC

SErIAL →
1 ConPC
2 Con.Prn →
3 AuH.1
4 AuH.2
5 AdUAnC

Con.Prn →
1 ModE
2 ProtoC
3 bAud
4 bit
5 CtS
6 PoHEr.P

Configuration of the serial protocol

D-2-4 bit ⏎

n.8.1
n.8.2
...
E.7.2

CtS

Printer control signal

D-2-5 CtS ⏎

no
LoH
hiGh
EMuL — Free adjustment

nChAr --- 000 Characters sent (0...999)

tiME ----- 000 Sending timeout (0...9999)

PoHEr.P

Printer power supply / Radio-frequency module

D-2-6 PoHEr.P ⏎

no
EHt.oFF — For use by the manufacturer

PHr.int — Printer power supply from indicator via Vaux connector.
Only visible on models fitted with Vaux, ref. wiring diagram (see page 45).

ModE

15

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↕ = ⬆
↕ = ⬇
➡ = ⏎
⬅ = **C**

💾

ⓘ

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SErIAL`
E	`LAYout`
F	`FiLtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`inPutS`
L	`outPut`
M	`rESEt`
N	`diAG`
O	`AdUAnC`

1 `CoN.PC`
2 `CoN.Prn`
3 `AuH.1`
4 `AuH.2`
5 `AdUAnC`

1 `NodE`
2 `ProtoC`
3 `bAud`
4 `bit`

`AuH.1-AuH.2`   Auxiliary ports

Selection of the communication mode
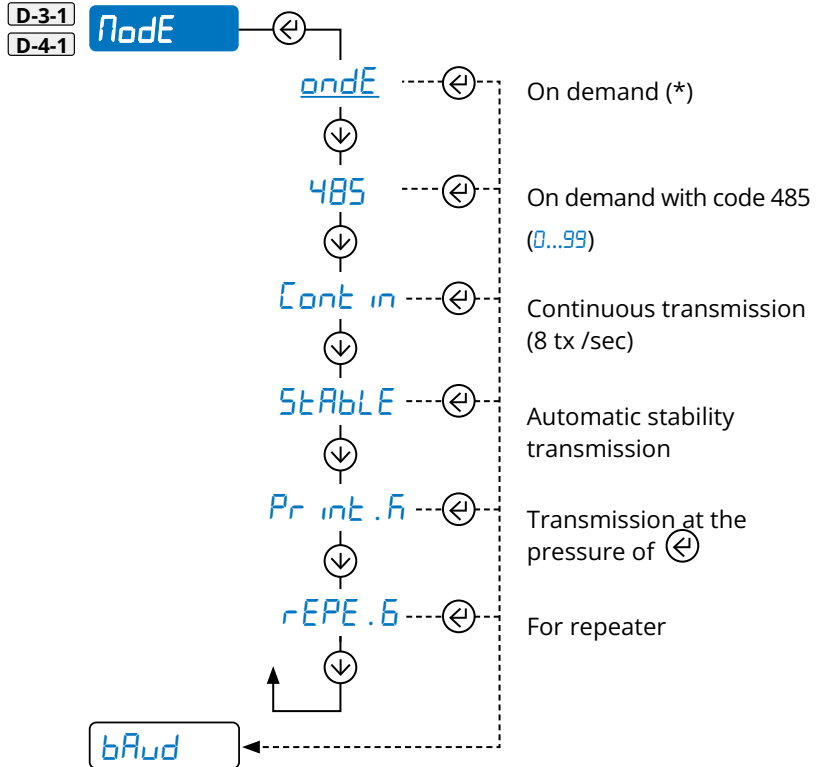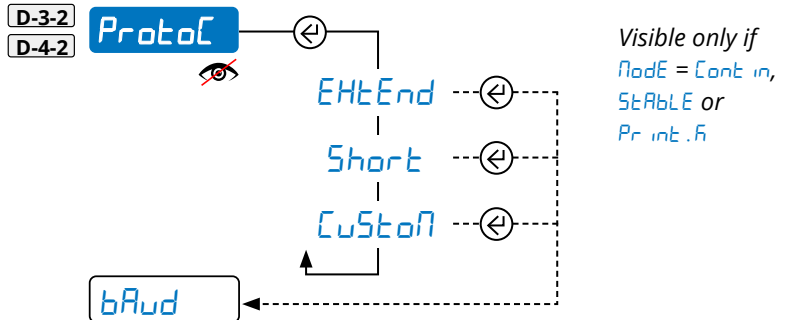
`D-3-1` `D-4-1` `NodE` ⏎

`ondE` ┈ ⏎ → On demand (*)

`485` ┈ ⏎ → On demand with code 485 (`0...99`)

`Cont in` ┈ ⏎ → Continuous transmission (8 tx /sec)

`StAbLE` ┈ ⏎ → Automatic stability transmission

`Print.6` ┈ ⏎ → Transmission at the pressure of ⏎

`rEPE.6` ┈ ⏎ → For repeater

`bAud`

Selection of the protocol:

`D-3-2` `D-4-2` `ProtoC` ⏎

Visible only if `NodE` = `Cont in`, `StAbLE` *or* `Print.6`

`EHtEnd` ┈ ⏎

`Short` ┈ ⏎

`CuStoN` ┈ ⏎

`bAud`

ⓘ *For available protocols see page 43.*

Communication speed (Baud rate)

`D-3-3` `D-4-3` `bAud` ⏎

`1200` ┈ ⏎

`...` ┈ ⏎

`9600`

`115200` ┈ ⏎

`bit`

🏠 ⚙
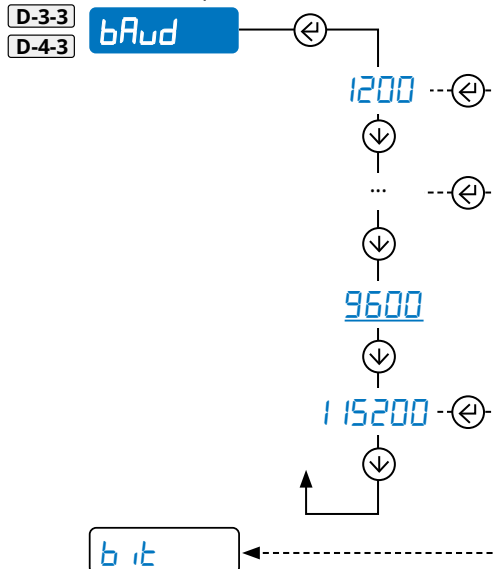
MENU

1. Off ⏻	↑ = ⊗↑	💾
2. On ⏻	↓ = ⊗↓	
3. ⊗↑	→ = ⊗↵	
ⓘ	← = **C**	ⓘ

A `CAL`
B `O.CAL`
C `GrAU`
D `SErIAL` ────────┐
E `LAYout` **1** `CoN.PC`
F `FILtEr` **2** `CoN.Prn`
G `SCrEEn` **3** `AuH.1` ────────┐
H `bAtt`   **4** `AuH.2` **1** `NodE`
I `AutoFF` **5** `AdUAnC` **2** `ProtoC`
J `An.out`   **3** `bAud`
K `InPutS`   **4** `bIt`
L `outPut`
M `rESEt`
N `dIAG`
O `AdUAnC`

Configuration of the serial protocol

| D-3-4 | `bIt` | ─────── ⊗↵ ─┐
| D-4-4 | | |

               `n.8.1` --- ⊗↵ ---┐
                 ⊗↓

                `n.8.2` --- ⊗↵ ---┤
                 ⊗↓
                 ...
                 ⊗↓

                `E.7.2` --- ⊗↵ ---┤
                 ⊗↓

`CtS` ◄─────────────────────┘

🏠 ⚙

1. Off ⏻
2. On ⏻
3. ⬆️
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1 ConPC
2 Con.Prn
3 AuH.1
4 AuH.2
5 AdUAnC

1 bLE
2 ttL.tiL
3 tErN
4 iGnorE
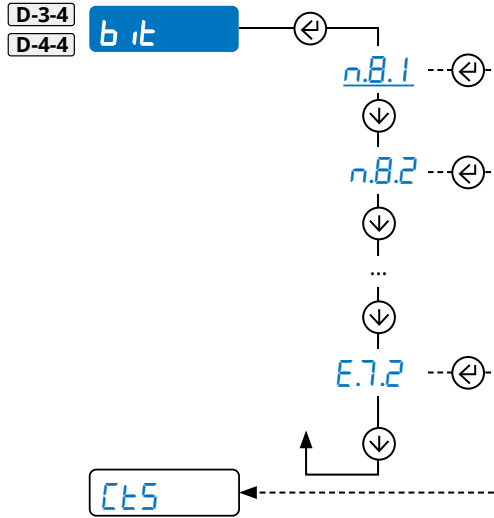
AdUAnC Advanced configurations

Activation of Bluetooth BLE module

D-5-1 bLE ↵

no ↵
⬇
YES ↵
⬇
bt.in i? * ↵
C

ttL.tiL
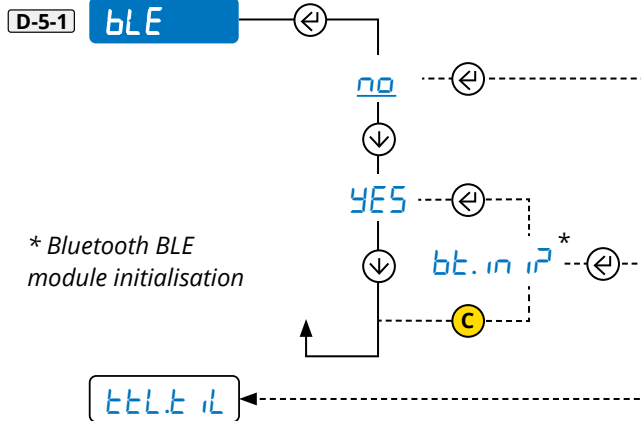
* *Bluetooth BLE module initialisation*

ⓘ *Refer to the AUX.2 port to communicate with the Bluetooth BLE module.*

TTL port / inclinometer activation (for use by the manufacturer)

D-5-2 ttL.tiL ↵

no ↵
⬇
YES ↵
⬇
tErN

👁 *Only visible on DFWL models.*
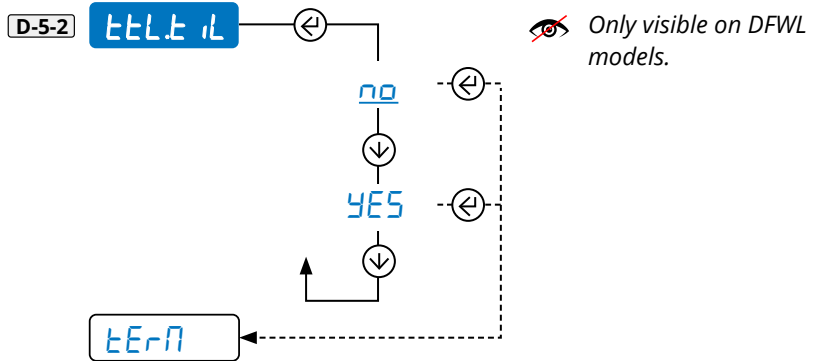
Closing character of each print line

D-5-3 tErN ↵

Cr ↵
⬇
CrLF ↵
⬇
iGnorE
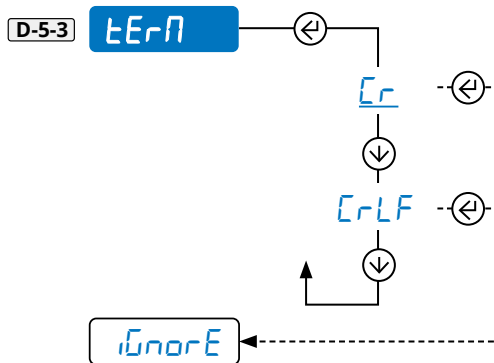
Ignore unknown commands

D-5-4 iGnorE ↵

no ↵
⬇
YES ↵
⬇
bLE
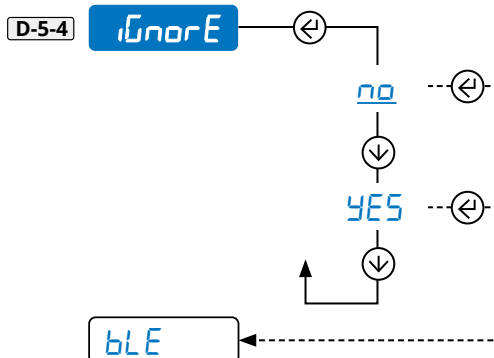
ⓘ *When an unknown command is sent:*
- Selecting NO will result in the response "ERR04".
- Selecting YES ignores the command (no response).

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MENU

1. Off ⏻
2. On ⏻
3. ⊼
ⓘ

↑ = ⊼
↓ = ⊻
→ = ↵
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SEr iAL
E	**LAYout**
F	F iLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	d iAG
O	AdUAnC

1	LAnG
2	ChAr
3	hEAdEr
4	dAtA
5	HE iGhS
6	t iCHEt
7	CLoCH
8	bArC.39
9	bArC.uP
10	bArC.L
11	bArC.h
12	bArC.dt
13	CoP iES
14	End.t iC
15	b.L inE
16	LAbEL
17	Lb.SAUE
18	tESt

🏠 ⚙

LAYout **Print customisation**

Parameters for ticket/label mode
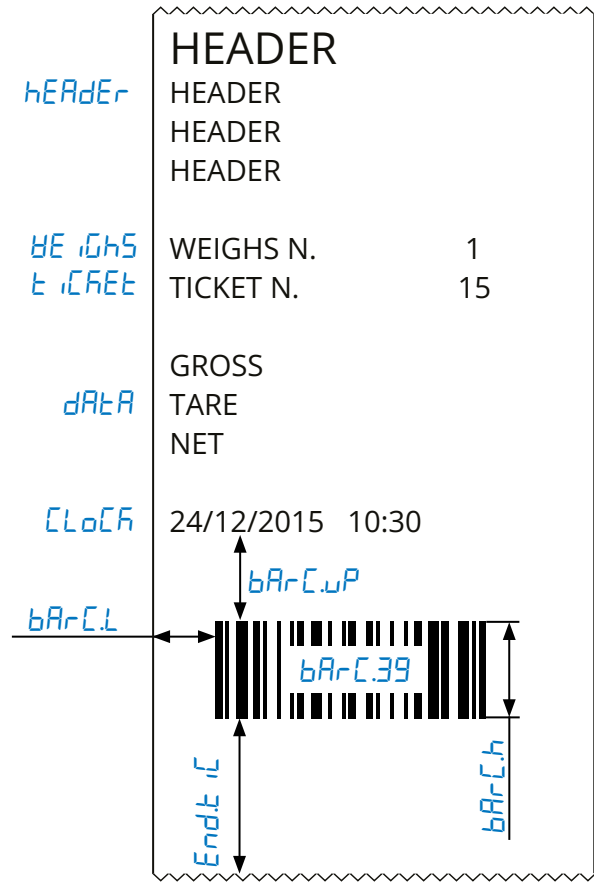
Additional parameters for label mode
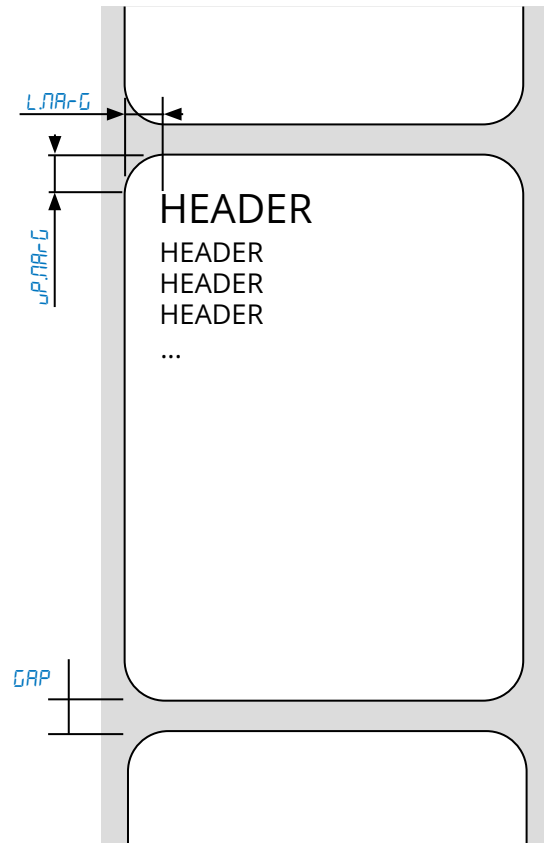
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MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↕ = ⬆
↕ = ⬇
→ = ⏎
← = **C**

💾
ⓘ

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SErIAL`
E	`LAYout`
F	`FILtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`InPutS`
L	`outPut`
M	`rESEt`
N	`dIAG`
O	`AdUAnC`

1	`LAnG`
2	`ChAr`
3	`hEAdEr`
4	`dAtA`
5	`UEIGhS`
6	`tICHEt`
7	`CLoCH`
8	`bArC.39`
9	`bArC.uP`
10	`bArC.L`
11	`bArC.h`
12	`bArC.dt`
13	`CoPIES`
14	`End.tIC`
15	`b.LInE`
16	`LAbEL`
17	`Lb.SAUE`
18	`tESt`

1	`ChAr 1`
2	`ChAr 2`

🏠 ⚙

Print language settings

E-1 `LAnG` ⏎

`EnGL` ⏎
⬇
...
⬇
`GrEA` ⏎

`ChAr`

iTAL
EnGL
dEut
FrAn
ESPA
ChinES
Port
GrEA
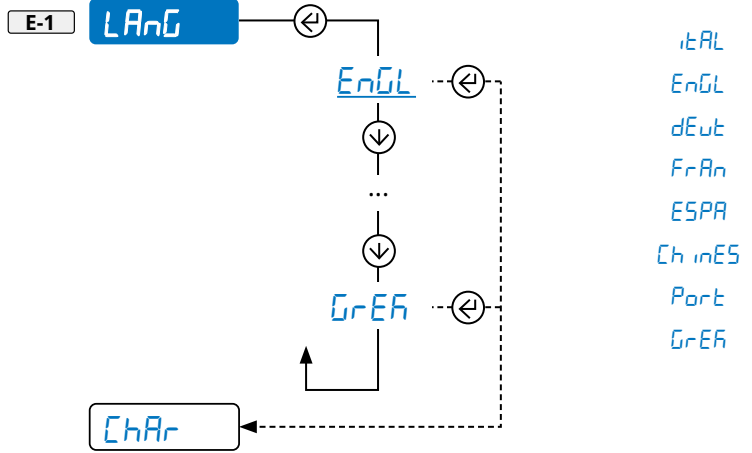
Font dimensions

E-2-1 `ChAr 1`

Main font

Label mode

`Font.1` ⏎
1 x 1,5 mm
⬇
`Font.1d` ⏎
1 x 3 mm
⬇
`Font.2` ⏎
1,5 x 2,5 mm
⬇
`Font.2d` ⏎
1,5 x 5 mm
⬇
`Font.3` ⏎
2 x 3 mm
⬇
`Font.3d` ⏎
2 x 6 mm
⬇
`Font.4` ⏎
3 x 4 mm
⬇
`Font.4d` ⏎
3 x 8 mm
⬇
`Font.5` ⏎
4 x 6 mm
⬇
`Font.5d` ⏎
4 x 12 mm

Ticket mode

`norMAL` ⏎
⬇
`doubLE` ⏎
⬇

`ChAr 2`

E-2-2 `ChAr 2`   See `ChAr 1`

20

MENU

1. Off ⏻
2. On ⏻
3. ⊕
ⓘ

↑ = ⊕
↓ = ⊕
→ = ⊕
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAV
D	SErIAL
E	**LAYout**
F	FILtEr
G	SCrEEn
H	bAtt
J	AutoFF
J	An.out
K	InPutS
L	outPut
M	rESEt
N	dIAG
O	AdVAnC

1	LAnG
2	ChAr
3	**hEAdEr**
4	dAtA
5	WEIGhS
6	tICAEt
7	CLoCh
8	bArC.39
9	bArC.uP
10	bArC.L
11	bArC.h
12	bArC.dt
13	CoPIES
14	End.tIC
15	b.LInE
16	LAbEL
17	Lb.SAVE
18	tESt

1	**EnAbLE**
2	**LInE 1**
3	**LInE 2**
4	**LInE 3**
5	**LInE 4**

🏠 ⚙

LAYout — Print customisation

hEAdEr — Print header

Enables header printing

E-3-1 **EnAbLE** ⊕

no ⊕
↓
YES ⊕ — Only 1st weight totalisation
↓
totAL ⊕ — Only upon each weight totalisation
↓
ALWAYS ⊕ — Also in total
↓

LInE 1
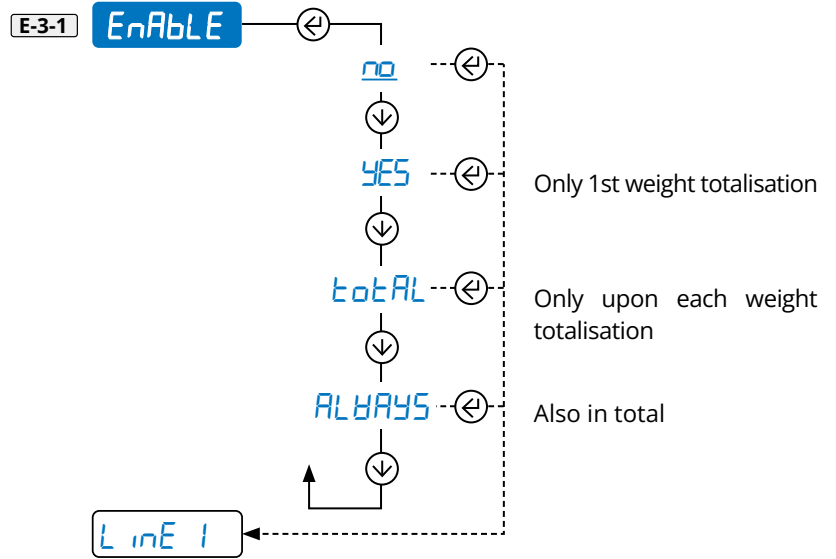
Contents of the header lines

E-3-2 **LInE 1** ⊕ — First row of header

no 👁⃠ *Visible only on* LInE 2, LInE 3 *and* LInE 4
↓
ChAr 1 ⊕
↓
ChAr 2 ⊕
↓

01 032 ⊕ 032* ⊕ — Enter the first character
↓
02 032 ⊕ 032* ⊕ — Enter the second character
↓
... ⊕ 032* ⊕
↓
24 032 ⊕ 032* ⊕ — Enter the last character
↓

LInE 2

How to set the value

🖑 ↓ ↑ →
or
0 ... 9
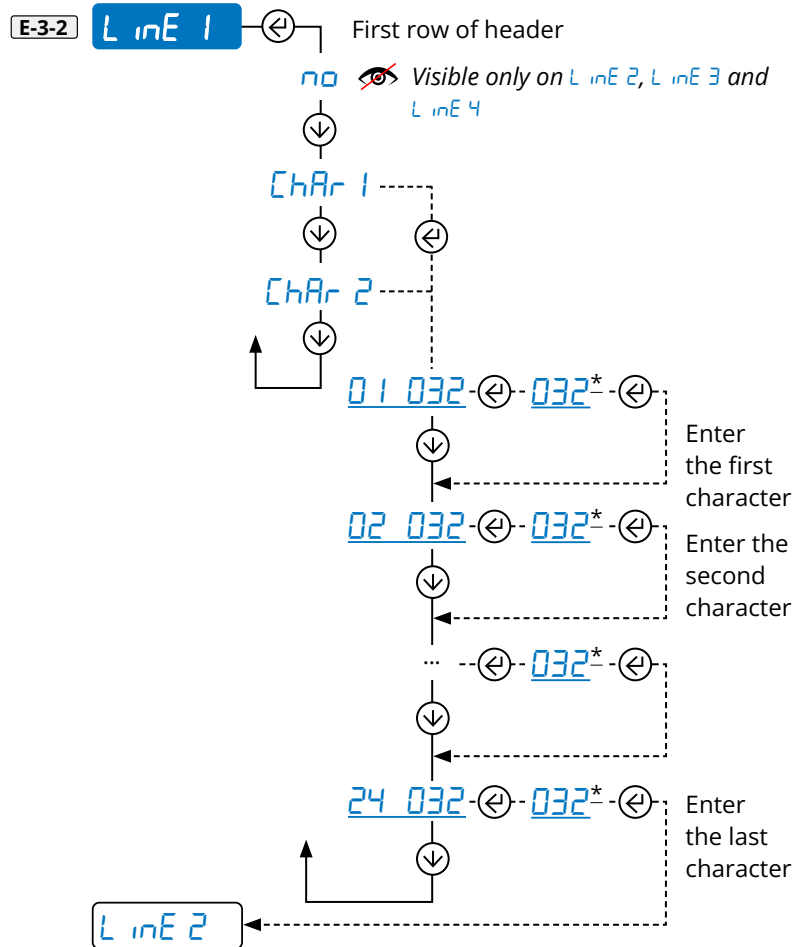
ⓘ *Repeat the operation to program* LInE 2, LInE 3 *and* LInE 4. *Select* no *to disable them.*

21

TECH_MAN_ENG_DFWIECEX_01.02_22.06

MENU

1. Off ⏻
2. On ⏻
3. ⬆️
ⓘ

↑ = ⬆️
↕ = ⬇️
→ = ↵
← = C

💾
ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SEriAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	diAG
O	AdUAnC

1	LAnG
2	ChAr
3	hEAdEr
4	dAtA
5	UEiGhS
6	tiCHEt
7	CLoCH
8	bArC.39
9	bArC.uP
10	bArC.L
11	bArC.h
12	bArC.dt
13	CoPiES
14	End.tiC
15	b.LinE
16	LAbEL
17	Lb.SAUE
18	tESt

1	EnAbLE
2	LinE 1
3	LinE 2
4	LinE 3
5	LinE 4

🏠 ⚙️

How to print / delete the row being programmed

01 032

⬇️

02 032 --→-- dELEtE --↵---- -oh- ······· Delete the header row

⬇️

Print --↵-- -oh- ······· Print the header row

03 032

⬇️

...

Programming example

01 032 --↵-- 072* --↵-- H

02 032 --↵-- 069* --↵-- E

03 032 --↵-- 076* --↵-- L

04 032 --↵-- 076* --↵-- L

05 032 --↵-- 079* --↵-- O

06 032 --↵-- 032* --↵--

...

24 032 --↵-- 032* --↵--

HELLO

How to set the value

👆 ⬇️ ⬆️ →
or
0 ... 9
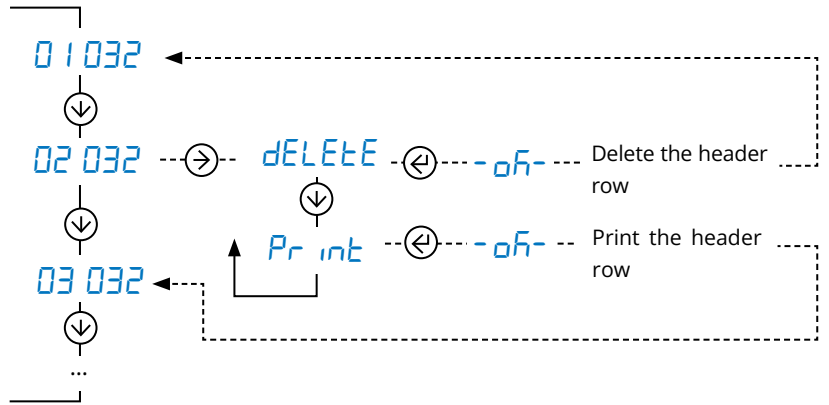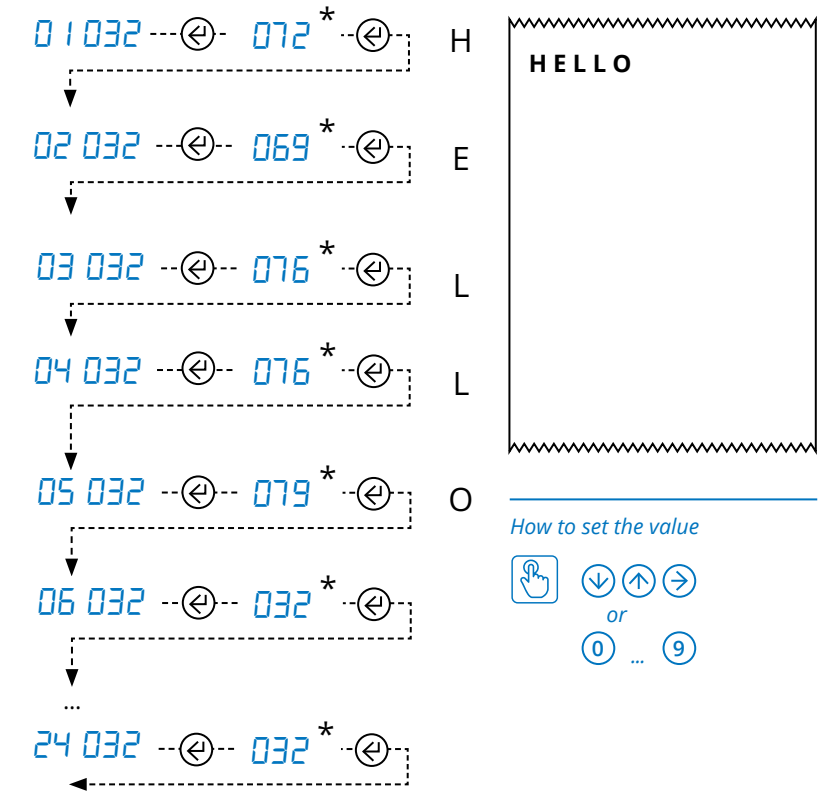
List of characters
(*)

32		47	/	62	>	77	M	92	\	107	k	122	z
33	!	48	0	63	?	78	N	93	]	108	l	123	{
34	"	49	1	64	@	79	O	94	^	109	m	124	|
35	#	50	2	65	A	80	P	95	_	110	n	125	}
36	$	51	3	66	B	81	Q	96	'	111	o	126	~
37	%	52	4	67	C	82	R	97	a	112	p		
38	&	53	5	68	D	83	S	98	b	113	q		
39	'	54	6	69	E	84	T	99	c	114	r		
40	(	55	7	70	F	85	U	100	d	115	s		
41	)	56	8	71	G	86	V	101	e	116	t		
42	*	57	9	72	H	87	W	102	f	117	u		
43	+	58	:	73	I	88	X	103	g	118	v		
44	,	59	;	74	J	89	Y	104	h	119	w		
45	-	60	<	75	K	90	Z	105	i	120	x		
46	.	61	=	76	L	91	[	106	j	121	y		

22

MENU

1. Off ⏻
2. On ⏻
3. ⍐
ⓘ

↑ = ⍐
↓ = ⍗
→ = ⏎
← = **C**

💾

ⓘ

A CAL	
B O.CAL	
C GrAU	
D SErIAL	
E LAYout	
F FILtEr	**1** LAnG
G SCrEEn	**2** ChAr
H bAtt	**3** hEAdEr
I AutoFF	**4** dAtA
J An.out	**5** UEIGhS
K InPutS	**6** tICREt
L outPut	**7** CLoCh
M rESEt	**8** bArC.39
N dIAG	**9** bArC.uP
O AdUAnC	**10** bArC.L
	11 bArC.h
	12 bArC.dt
	13 CoPIES
	14 End.tIC
	15 b.LInE
	16 LAbEL
	17 Lb.SAUE
	18 tESt

🏠 ⚙

Selection of the weight data

E-4 dAtA → ⏎

GroSS → ⏎
  YES ····· ⏎
  no ····· ⏎
tArE → ⏎
  YES ····· ⏎
  no ····· ⏎
nEt → ⏎
  YES ····· ⏎
  no ····· ⏎

UEIGhS

Progressive weighed

E-5 UEIGhS → ⏎

no ··· ⏎
YES ··· ⏎ — On each weighing operation
SuN ··· ⏎ — On total only
ALUAYS ··· ⏎ — Both on each weighing operation / weight totalisation and total

tICREt
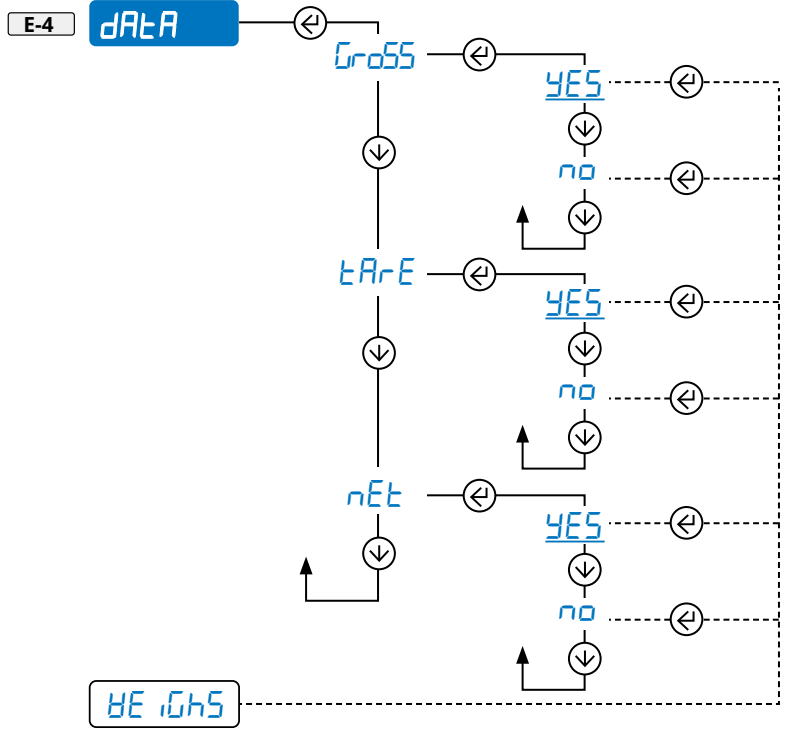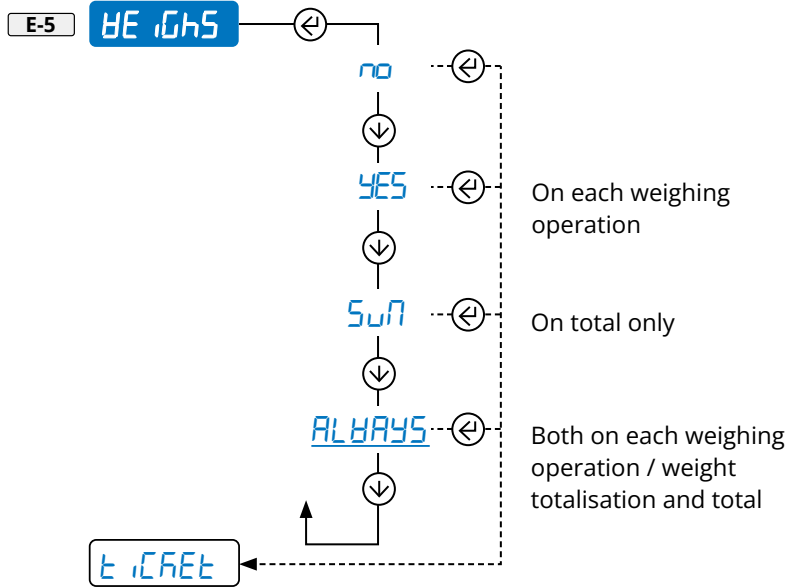
Ticket/label progressive
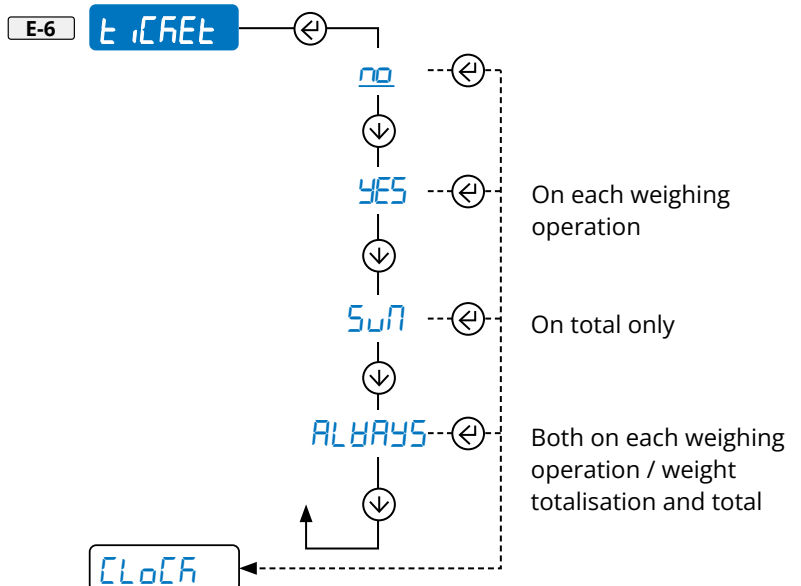
E-6 tICREt → ⏎

no ··· ⏎
YES ··· ⏎ — On each weighing operation
SuN ··· ⏎ — On total only
ALUAYS ··· ⏎ — Both on each weighing operation / weight totalisation and total

CLoCh

23

MENU

1. Off ⏻
2. On ⏻
3. ⬆

↕ = ⬆
↕ = ⬇
→ = ⏎
← = C

💾

A CAL		
B O.CAL		
C GrAU		
D SErIAL		
E LAYout	→	
F FILtEr	**1** LAnG	
G SCrEEn	**2** ChAr	
H bAtt	**3** hEAdEr	
I AutoFF	**4** dAtA	
J An.out	**5** HEIGhS	
K InPutS	**6** tICHEt	
L outPut	**7** CLoCH	
M rESEt	**8** bArC.39	
N dIAG	**9** bArC.uP	
O AdUAnC	**10** bArC.L	
	11 bArC.h	
	12 bArC.dt	
	13 CoPIES	
	14 End.tIC	
	15 b.LInE	
	16 LAbEL	
	17 Lb.SAUE	
	18 tESt	

🏠 ⚙

Date and time

E-7 CLoCH ⏎

no ⏎
⬇
YES ⏎ — On each weighing operation
⬇
SuN ⏎ — On total only
⬇
ALHAYS ⏎ — Both on each weighing operation / weight totalisation and total
⬇
bArC.39

Bar code 39

E-8 bArC.39 ⏎

no ⏎
⬇
YES ⏎ — On each weighing operation
⬇
SuN ⏎ — On total only
⬇
ALHAYS ⏎ — Both on each weighing operation / weight totalisation and total
⬇
bArC.uP

Barcode top margin (mm)   👁 *Visible only if* bArC.39 **(E-8)** *is active*

E-9 bArC.uP ⏎ 000 ⏎

bArC.L ←

If NodE=tICHEt (0...9)
Se NodE=LAbEL (0...999)
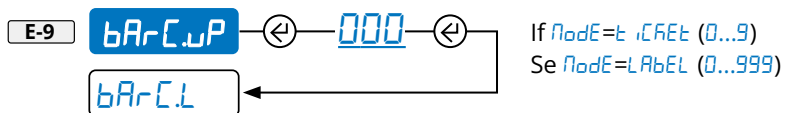
Barcode left margin (mm)   👁 *Visible only if* bArC.39 **(E-8)** *is active*

E-10 bArC.L ⏎ 00 ⏎

bArC.h ←

If NodE=tICHEt (1...99)
Se NodE=LAbEL (0...99)
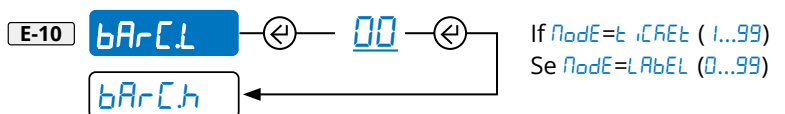
Barcode height (mm)   👁 *Visible only if* bArC.39 **(E-8)** *is active*
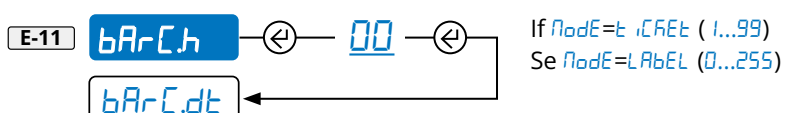
E-11 bArC.h ⏎ 00 ⏎

bArC.dt ←

If NodE=tICHEt (1...99)
Se NodE=LAbEL (0...255)

24

MENU

1. Off ⏻
2. On ⏻
3. ⬆

| ↕ = ⬆ |
| ↕ = ⬇ |
| ➡ = ↵ |
| ⬅ = **C** |

💾

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	**LAYout**
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1	LAnG
2	ChAr
3	hEAdEr
4	dAtA
5	WEiGhS
6	tiCKEt
7	CLoCK
8	bArC.39
9	bArC.uP
10	bArC.L
11	bArC.h
12	**bArC.dt**
13	**CoPiES**
14	**End.tiC**
15	**b.L inE**
16	LAbEL
17	Lb.SAUE
18	tESt

🏠 ⚙

Selection of the weight data

👁️ *Visible only if* bArC.39 **(E-8)** *is active*

E-12 **bArC.dt** ↵

GroSS ↵
↓
nEt ↵
↓
tArE ↵
↓

CoPiES

Multi-copy prints

E-13 **CoPiES** ↵ n 1...3 ↵

End.tiC
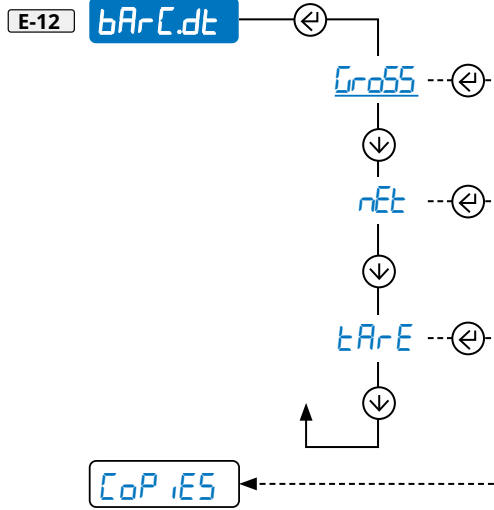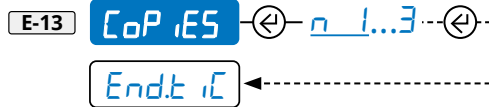
Paper outlet for end of ticket/receipt

E-14 **End.tiC** ↵

no ↵
↓
YES ↵   On each weighing operation
↓
SuM ↵   On total only
↓
ALWAYS ↵   Both on each weighing operation / weight totalisation and total
↓

b.L inE
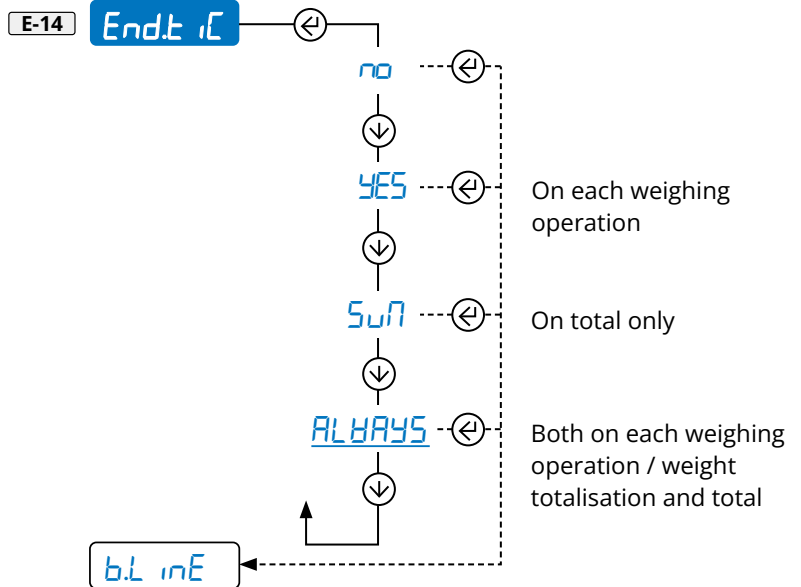
White print head preheating line (thermal printer only)

E-15 **b.L inE** ↵

no ↵
↓
YES ↵
↓

LAbEL

25
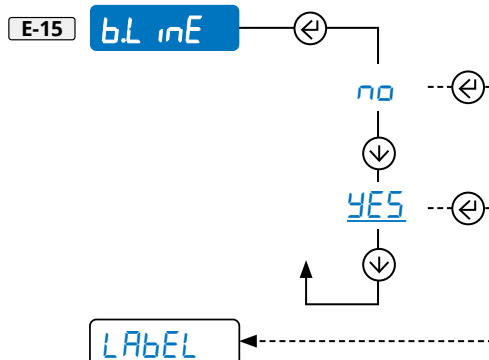
MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = Ⓒ

💾

ⓘ

A CAL	
B O.CAL	
C GrAU	
D SEriAL	
E LAYout	→
F FiLtEr	**1** LAnG
G SCrEEn	**2** ChAr
H bAtt	**3** hEAdEr
I AutoFF	**4** dAtA
J An.out	**5** hEiGhS
K inPutS	**6** tiCHEt
L outPut	**7** CLoCH
M rESEt	**8** bArC.39
N diAG	**9** bArC.uP
O AdUAnC	**10** bArC.L
	11 bArC.h
	12 bArC.dt
	13 CoPiES
	14 End.tiC
	15 b.LinE
	16 LAbEL
	17 Lb.SAUE
	18 tESt

🏠 ⚙

Label configuration

👁̶ *Only visible if* ПodE (D-2-1) = LAbEL

E-16 LAbEL ↵

Width ↵ --- 063 --- ↵ Size (w) (0...999)

hEiGht ↵ --- 080 --- ↵ Size (h) (0...999)

uP.ПArG ↵ --- 010 --- ↵ Upper margin (mm) - (0...999)

L.ПArG ↵ --- 06 --- ↵ Left margin (mm) - (0...99)

PEEL ↵

YES ------- ↵ Peeler

no ------- ↵

GAP ↵ --- 3 --- ↵ Gap between labels (mm) - (0...7)

Lb.SAUE
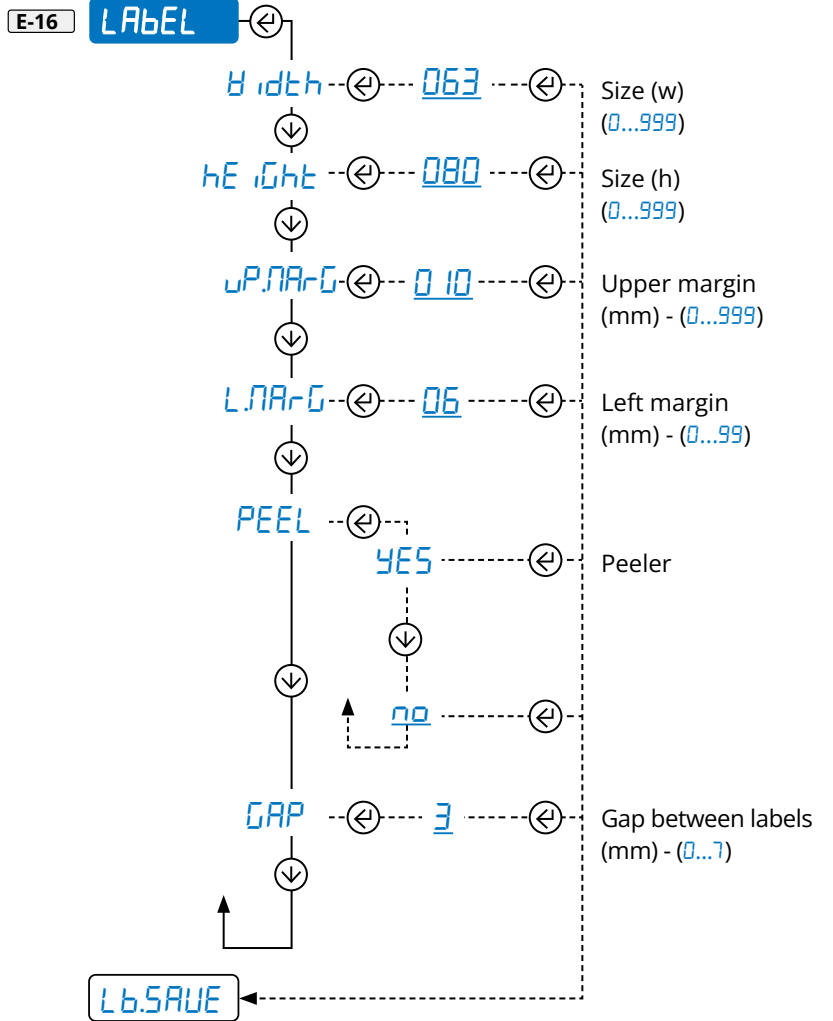
Saving labels in printer memory

👁̶ *Visible only if* ПodE (D-2-1) = LAbEL

E-17 Lb.SAUE ↵ --- L.SAUE? ↵
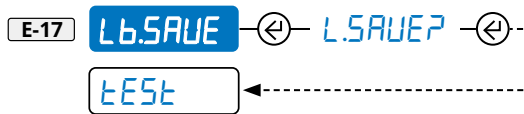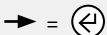
tESt ◄------

Saving labels in the printer memory (for label mode only) and test printing ALL FORMATS

E-18 tESt ↵

LAnG ◄

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↕ = ⬇
↕ = ⬇
➡ = ⏎
⬅ = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	**FILtEr**
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1	F 1
2	F 2
3	F 3
4	F 4
5	F 5
6	F 6
7	F 7
8	F 8
9	F 9
10	F 10
11	CuStoM

FILtEr Weighing filters 🔒

To change the responsiveness of the scale.
This is useful to adjust the scale according to your needs.

🔒 *With an approved instrument, it is not possible to change the filter.*

Foreword:
"F 10" represents the lowest filtering incidence.
By increasing the incidence, the weight becomes more stable.
It is advisable to carry out several weighing operations by changing the incidence until the best compromise between responsiveness and stability is achieved.

F-1	F 1	Filter at 5 Hz.
F-2	F 2	Filter at 10 Hz.
F-3	F 3	Filter at 20 Hz.
F-4	F 4	Filter at 40 Hz.
F-5	F 5	Filter at 80 Hz.
F-6	F 6	Filter at 160 Hz.
F-7	F 7	Filter at 325 Hz.

F-8	F 8	Filter at 650 Hz.	*Only visible if* n.ChAn < 3
F-9	F 9	Filter at 1300 Hz.	*Only visible if* n.ChAn < 2
F-10	F 10	Filter at 2600 Hz.	*Only visible if* n.ChAn < 2
F-11	CuStoM	For use by the manufacturer.	

MENU

1. Off ⏻
2. On ⏻
3. ⊼
ⓘ

↑ = ⊼
↓ = ⊽
→ = ⏎
← = C

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
J	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	diAG
O	AdUAnC

1	bAK.Lit
2	LoCK
3	CoLour
4	dSP.rF

🏠 ⚙️

SCrEEn Adjusting the display

Backlighting

G-1 bAK.Lit ⏎

no ⏎

YES ⏎ Always on

Auto ⏎ On when weight is unstable

br iGht
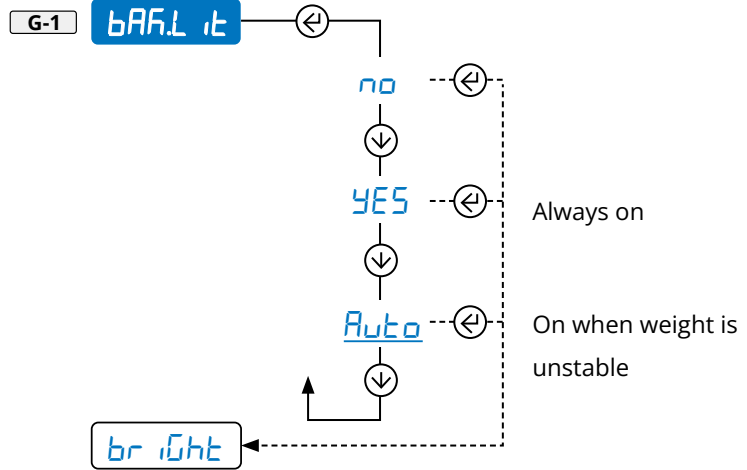
Display lock (for use by the manufacturer)
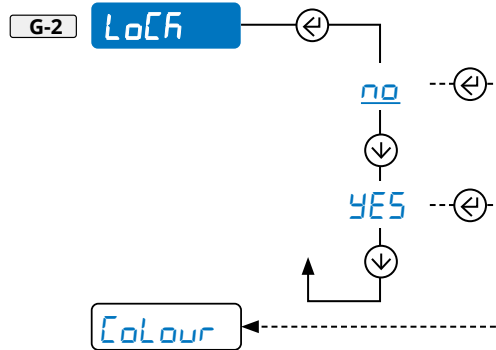
G-2 LoCK ⏎

no ⏎

YES ⏎

CoLour

Backlight colour
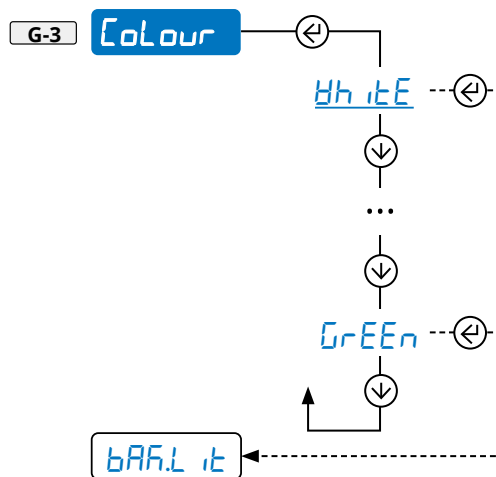
G-3 CoLour ⏎

Wh itE ⏎

...

GrEEn ⏎

bAK.Lit

MENU

1. Off ⏻
2. On ⏻
3. ↥
ⓘ

↑ = ↥
↓ = ⤓
→ = ↵
← = C

💾
ⓘ

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SEr.iAL`
E	`LAYout`
F	`FiLtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`inPutS`
L	`outPut`
M	`rESEt`
N	`diAG`
O	`AdUAnC`

1	`bAR.Lit`
2	`LoCh`
3	`Colour`
4	`dSP.rF`

🏠 ⚙️

Display refresh rate limitation

`G-4` `dSP.rF` ↵

`norΠ` ↵ → No limitation

`20 hZ` ↵

`10 hZ` ↵

`5 hZ` ↵

`2.5 hZ` ↵

`1 hZ` ↵

`CLoCh`
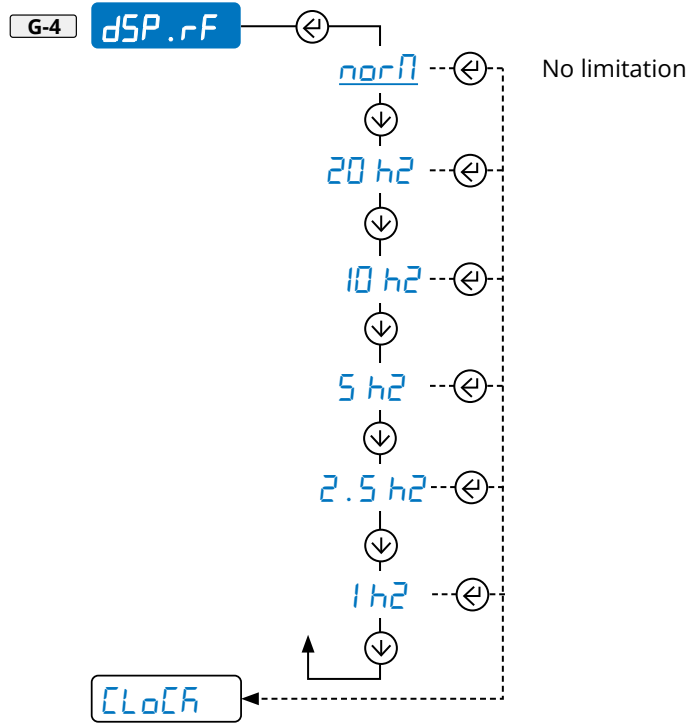
`bAtt` Battery power supply

`H` `bAtt` ↵

`no` ↵ → External power supply (IECEXPW)

`n.iΠh` ↵ → External battery (IECEXB)

`ECo.bAt`
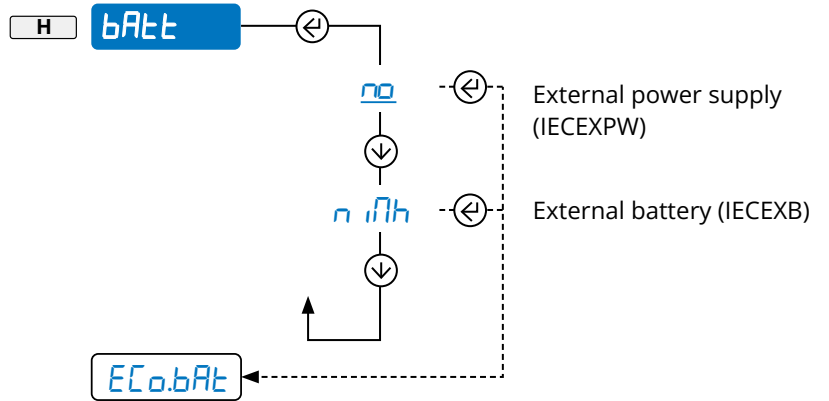
ⓘ *WARNING:*
use only original batteries.

`AutoFF` Auto switch-off

`I` `AutoFF` ↵

`no` ↵

`YES` ↵ `Π 001` ↵

How to set the value

👆 ⤓ ↥ →
or
⓪ ... ⑨

`An.out`

MENU

↑ = ⊼
↓ = ⊽
→ = ⏎
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FILtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	InPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1	nEt
2	Pnt.und
3	UGt.1
4	Pnt.1
5	UGt.2
6	Pnt.2
7	UGt.3
8	Pnt.3
9	Pnt.oUr

🏠 ⚙

An.out   Analogue output   👁̸

👁̸ *Only visible when the optional analogue board is present.*

Operation proportional to net/gross weight

J-1 nEt ⏎

YES ⏎ Proportional to net weight
⊽
no ⏎ Proportional to gross weight
⊽
Pnt.und ◄

J-2 Pnt.und ⏎ 00000 ⏎ Analogue value for weight in underload (0...65535)

J-3 UGt.1 ⏎ 000.000 ⏎ First linearisation weight value (-99999...999999)

J-4 Pnt.1 ⏎ 01300 ⏎ Analogue value related to UGt.1 (0...65535)

J-5 UGt.2 ⏎ 000.000 ⏎ Second linearisation weight value (-99999...999999)

J-6 Pnt.2 ⏎ 63250 ⏎ Analogue value related to UGt.2 (0...65535)

J-7 UGt.3 ⏎ 000.000 ⏎ Third linearisation weight value *(not mandatory)* (-99999...999999)

J-8 Pnt.3 ⏎ 00000 ⏎ Analogue value related to UGt.3 *(not mandatory)* (0...65535)

J-9 Pnt.oUr ⏎ 65535 ⏎ Analogue value relative to weight in "overload" (0...65535)

ⓘ *Using the real time update of the output, it is possible to check the entered value with a tester (see example on page 31).*

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ⏎
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1	nEt
2	Pnt.und
3	HGt.1
4	Pnt.1
5	HGt.2
6	Pnt.2
7	HGt.3
8	Pnt.3
9	Pnt.oUr

Programming example:

the analogue output provides 10V to program a linearisation point so that at 1000kg.

…

J-3 **HGt.1** ⏎ 00 1000 ⏎ Programming 1000kg

J-4 **Pnt.1** ⏎
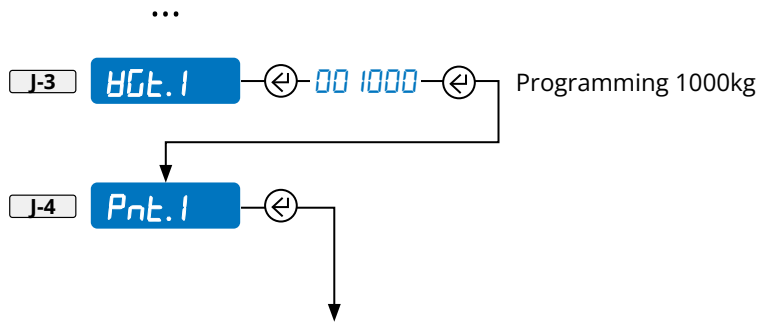
Enter 62300 (the reference value given in the table) and check the analogue output using a tester.

ⓘ *The output is updated in real time.*
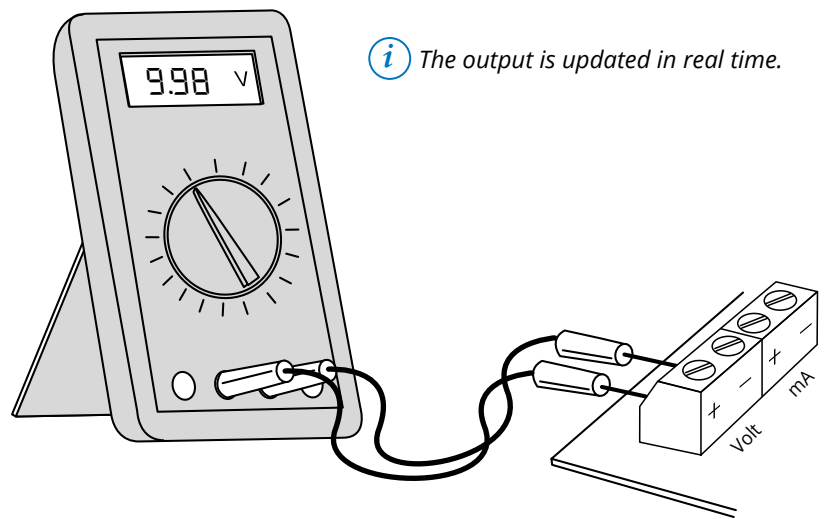
Adjust the analogue output by increasing or decreasing the value. Minimum variations of at least 10 points are recommended, (623 10, 62320, 62330, etc.)

How to set the value

🖐 ⬇ ⬆
or
0 … 9

ⓘ *The output is updated in real time.*
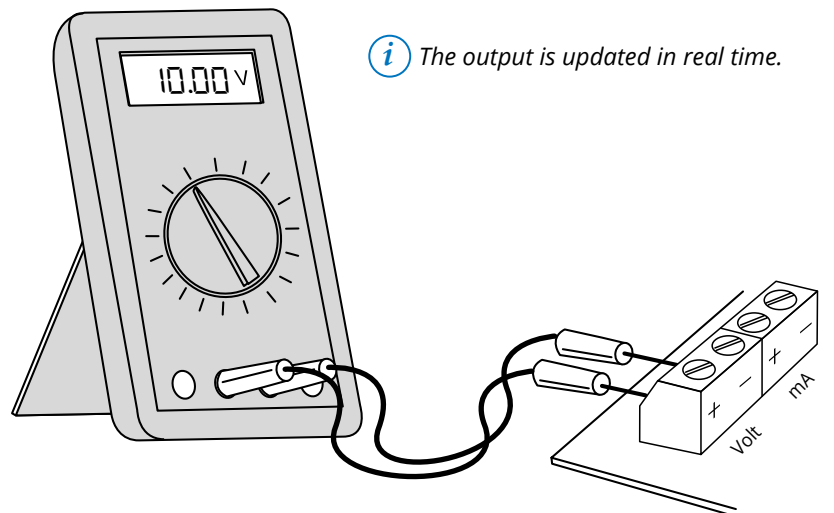
Once the desired setting has been made, confirm the value with ⏎.

🏠 ⚙

MENU

1. Off ⏻
2. On ⏻
3. ⬆

↑ = ⬆
↓ = ⬇
→ = ↵
← = C

💾

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FILtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	dIAG
O	AdUAnC

1	inP.b.1
2	inP.b.2
3	inP.b.2
4	inP.b.2

🏠 ⚙
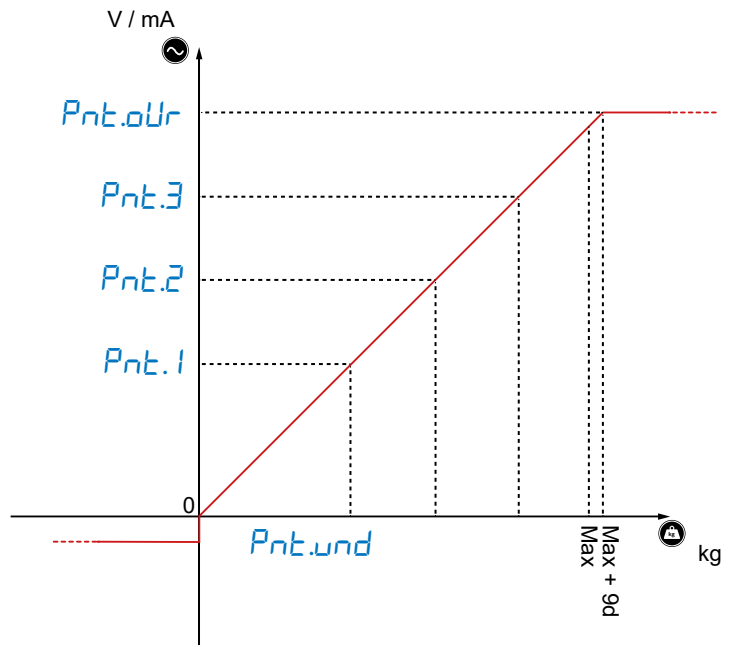
Value to be entered	Output volts	mA output
1200	~ 0 V	~ 0 mA
11250		~ 4 mA
52200		~ 20 mA
62300	~ 10 V	

inPutS Digital inputs

Input configuration 1
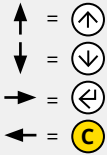
K-1 inP.b.1 → ↵

no → ↵
↓
2Ero → ↵ — Key repetition ⬇
↓
tArE → ↵ — Key repetition ⬆
↓
ModE → ↵ — Key repetition →
↓
Print → ↵ — Key repetition ↵
↓
LoCH.Hb → ↵ — Keypad deactivation
↓

inP.b.2
inP.b.3
inP.b.4

ⓘ *Repeat the same operation for* inP.b.2.

32

MENU

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SEriAL`
E	`LAYout`
F	`FiLtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`inPutS`
L	`outPut`
M	`rESEt`
N	`diAG`
O	`AdUAnC`

1	`rEL.b.1`
2	`rEL.b.2`
3	`rEL.b.3`
4	`rEL.b.4`
5	`rEL.b.5`
6	`rEL.b.6`
7	`rEL.b.7`
8	`rEL.b.8`
9	`rEL.b.9`
10	`rEL.b.10`
11	`rEL.b.11`
12	`rEL.b.12`

1	`FunCt`
2	`ModE`
3	`dirECt`
4	`hiStEr`

🏠 ⚙

`outPut` Digital outputs

Operation on net weight, gross weight or batching

L-1-1 `FunCt` ⏎
- `no`
- `GroSS`
- `nEt`
- `doSAGE`
→ `ModE`
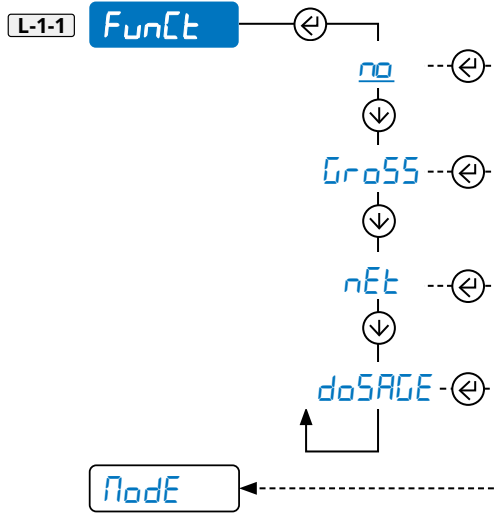
> **For dosing / filling:**
> • Activate mode `doSAGE`
> • Set tare `unLoCh`.
>
> The output is activated only after the container has been calibrated (by key or external button) and is deactivated when the set target (setpoint) is reached. To carry out two-speed filling, two outputs must be programmed with `doSAGE` mode.

Normally open operation (`n.o.`) or closed (`n.c.`)

L-1-2 `ModE` ⏎
- `n.o.`
- `n.C.`
→ `dirECt`
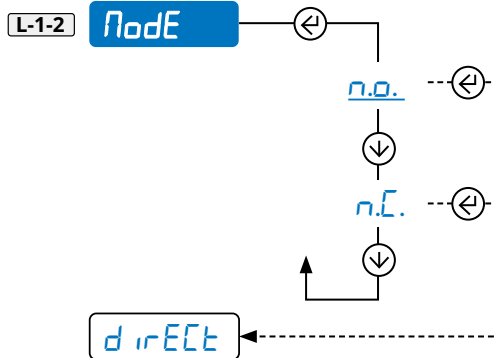
Output activation mode
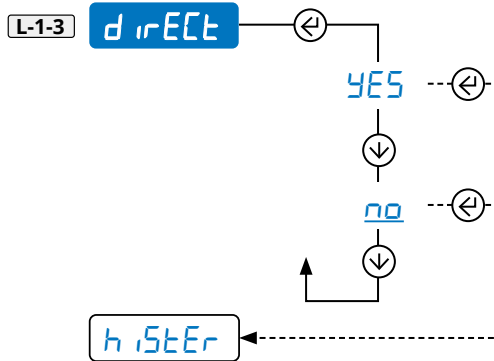
L-1-3 `dirECt` ⏎
- `YES`   Direct, stable or unstable weight
- `no`   Only at stable weight
→ `hiStEr`

Double threshold operation (activation weight threshold ≠ from output deactivation weight threshold)

L-1-4 `hiStEr` ⏎
- `YES`
- `no`
→ `FunCt`
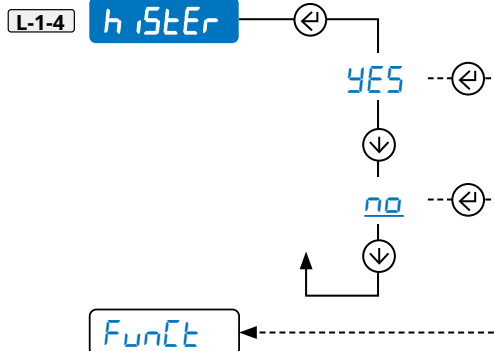
> **Operation:**
>
> `YES` (Double threshold)
>
> `no` (Single threshold)

ⓘ *Repeat the same operation for* `rEL.b.2`, `rEL.b.3`, `rEL.b.4`, `rEL.b.5`, `rEL.b.6`, `rEL.b.7`, `rEL.b.8`, `rEL.b.9`, `rEL.b.10`, `rEL.b.11` *and* `rEL.b.12`.

MENU

1. Off ⏻
2. On ⏻
3. ⊼

ⓘ

↑ = ⊼
↓ = ⊻
→ = ⏎
← = Ⓒ

💾

ⓘ

A CAL
B O.CAL
C GrAV
D SEr iAL
E LAYout
F F iLtEr
G SCrEEn
H bAtt
I AutoFF
J An.out
K inPutS
L outPut
M rESEt
N d iAG
O AdVAnC

1 AdC.uU
2 d iSPLA
3 KEYb
4 CtS
5 outPut
6 inPutS
7 An.out
8 SEr.nuM
9 PrG.UEr
10 d iV. int
11 AdC.Pnt
12 bt.AdC
13 PY.AdC
14 SEr iAL

🏠 ⚙

---

rESEt Factory configuration reset

M rESEt — SurE? — ⏎
d iAG ◀
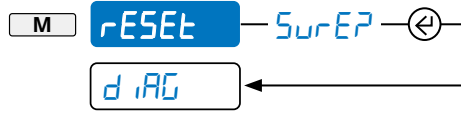
Function for restoring default configurations keeping the stored calibration.

d iAG Diagnostics

N-1 AdC.uU — Converter. Check of input signal in µV.
In case of multiple equalised channels, press the ⊻ or ⊼ buttons to examine all selected channels.

N-2 d iSPLA — Display. Integrity check of all segments and icons.

N-3 KEYb — Keypad. Press a key to check the correct operation, with beep and code on display.

N-4 CtS — CTS. Check of status of the control signal from the printer.

N-5 outPut — Optional digital outputs. Check the activation and deactivation of each contact.
Example: out 1 *activates output 1. Press the button ⊻ to select the next output.*

WARNING: before entering the step outPut check that the activation of the output does not cause conditions of danger to persons, animals or property.

N-6 inPutS — Optional digital inputs. Check the activation and deactivation of each input.
Example: i.b 1-0 *input not active*
Example: i.b 1-1 *active input*
Press the button ⊻ to select the next input.

N-7 An.out — Analogue output. Enter the digital value and check the analogue output response with a tester.

N-8 SEr.nuM — Scale serial number.

N-9 PrG.UEr — Hardware version (e.g. rEU 5) followed by software version (e.g. 04 .00 .00).

N-10 d iV. int — For use by the manufacturer.

N-11 AdC.Pnt — For use by the manufacturer.

N-12 bt.AdC — For use by the manufacturer.

N-13 PY.AdC — For use by the manufacturer.

N-14 SEr iAL — For use by the manufacturer.

MENU

1. Off ⏻
2. On ⏻
3. ⬆

ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = **C**

💾

ⓘ

A `CAL`
B `O.CAL`
C `GrAU`
D `SErIAL`
E `LAYout`
F `FiLtEr`
G `SCrEEn`
H `bAtt`
I `AutoFF`
J `An.out`
K `inPut5`
L `outPut`
M `rESEt`
N `diAG`
O `AdUAnC`

  1 `UCEL`
  2 `CAL.PAr`
  3 `E9uAL.P` **1** `dECiN`
  4 `CAL.AdU` **2** `diU`
  5 `Stb.FLt` **3** `u.N.`
  6 `PEAK.FL` **4** `rAnGE1`
  7 `NEtroL` **5** `rAnGE2`
  8 `KEYb` **6** `rAnGE3`
  9 `tiLt` **7** `E9uAL`
  10 `rEACt` **8** `n.ChAn`
  11 `LoCK.Kb`
  12 `ALib.ir`
  13 `Pin.tEC`
  14 `Pin.uSE`
  15 `dFLt.t`

🏠 ⚙

`AdUAnC` **Advanced**

`UCEL` **Load cell power supply**

Load cell power supply voltage configuration

O-1-2 `UCEL` → ↵

    `NAX` ↵   5 Vdc power supply
    ⬇
    `Nin` ↵   2.5 Vdc power supply
    ⬇
    `dirECt`
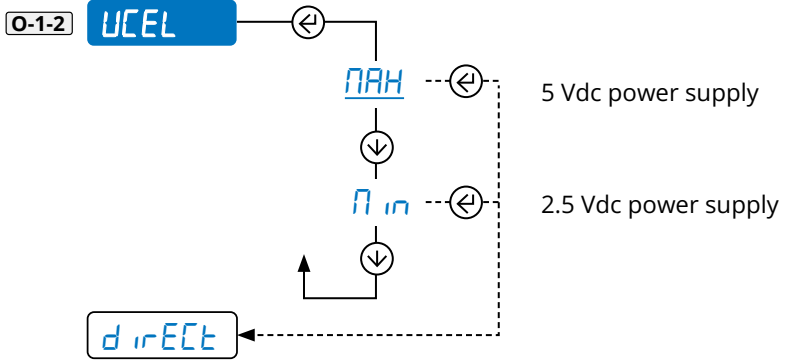
`CAL.PAr` Calibration parameters 🔒Ⓜ

Configuration of the decimal point (`0...3`)
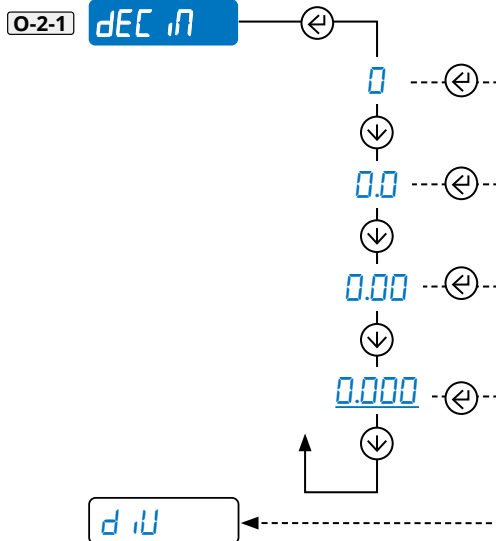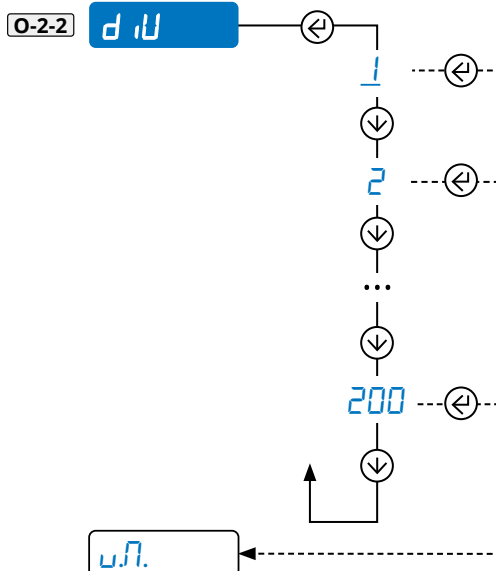
O-2-1 `dECiN` → ↵

    `0` ↵
    ⬇
    `0.0` ↵
    ⬇
    `0.00` ↵
    ⬇
    `0.000` ↵
    ⬇
    `diU`

Reading division

O-2-2 `diU` → ↵

    `1` ↵
    ⬇
    `2` ↵
    ⬇
    ...
    ⬇
    `200` ↵
    ⬇
    `u.N.`

35

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SEriAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	diAG
O	**AdUAnC**

1	UCEL
2	**CAL.PAr**
3	EQuAL.P
4	CAL.AdU
5	Stb.FLt
6	PEAK.FL
7	MEtroL
8	KEYb
9	tiLt
10	rEACt
11	LoCK.Kb
12	ALibir
13	P in.tEC
14	P in.uSE
15	dFLt.t

1	dECin
2	diU
3	**u.M.**
4	**rAnGE 1**
5	**rAnGE2**
6	**rAnGE3**
7	EQuAL
8	n.ChAn

🏠 ⚙

Unit of measure

O-2-3 u.M. ↵

G ↵
↓
KG ↵
↓
t ↵
↓
Lb ↵
↓
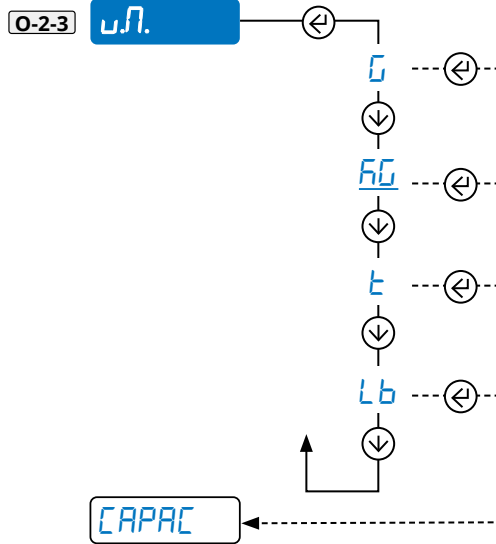
CAPAC

Scale capacity. Set Max or Range 1 (Max range = 800.000)

O-2-4 rAnGE 1 ↵ 003.000 ↵ *How to set the value*
rAnGE 2
👆 ⬇ ⬆ →
or
0 ... 9
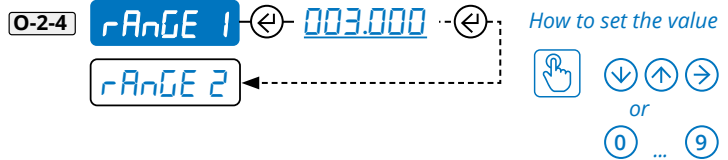
Range 2
For multirange scales, set the second weighing range.

O-2-5 rAnGE 2 ↵ 000.000 ↵ *How to set the value*
rAnGE 3
👆 ⬇ ⬆ →
or
0 ... 9
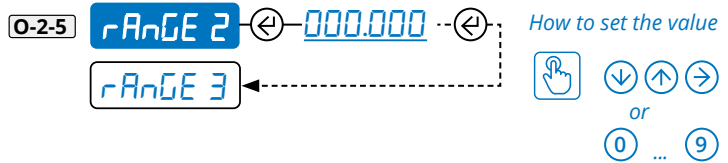
Range 3
For multirange scales, set the third weighing range.

O-2-6 rAnGE 3 ↵ 000.000 ↵ *How to set the value*
rAnGE 1
👆 ⬇ ⬆ →
or
0 ... 9
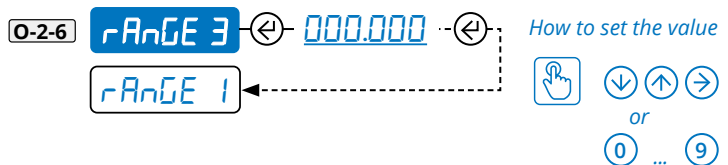
Example of multirange configuration at 1500/3000 kg, division 0,5/1 kg.

Set:
dECi = 0.0
diU = 5
rAnGE 1 = 1500.0
rAnGE 2 = 3000.0

36

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = **C**

💾

ⓘ

A CAL
B O.CAL
C GrAU
D SErIAL
E LAYout
F FILtEr
G SCrEEn
H bAtt
I AutoFF
J An.out
K InPutS
L outPut
M rESEt
N dIAG
O AdUAnC

1 UCEL
2 CAL.PAr
3 EQuAL.P
4 CAL.AdU
5 Stb.FLt
6 PEAK.FL
7 MEtroL
8 KEYb
9 tILt
10 rEACt
11 LoCK.Kb
12 ALIbIr
13 PIn.tEC
14 PIn.uSE
15 dFLt.t

CAL.PAr:
1 dECIN
2 dIU
3 u.M.
4 rAnGE1
5 rAnGE2
6 rAnGE3
7 EQuAL
8 n.ChAn

🏠 ⚙

Equalisation function

O-2-7 EQuAL → ↵

no ---- ↵
⬇
YES ---- ↵
⬇

n.ChAn ◄----
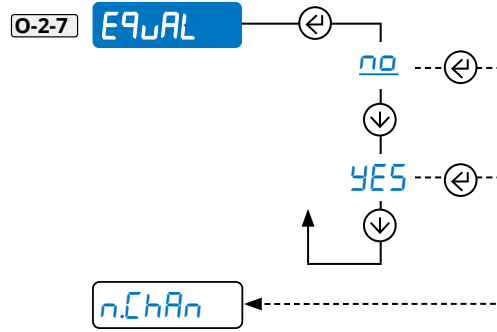
ⓘ *Connection diagram on page 7.*
Equalisation procedure on page 37.

Equalised analogue channels

👁‍🗨 *Only visible if* EQuAL *(Q-1-7)=* YES

O-2-8 n.ChAn → ↵

Ch 2 -- ↵
⬇
Ch 3 -- ↵
⬇
Ch 4 -- ↵
⬇

dECIN ◄----

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ⏎
← = **C**

💾

ⓘ

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SErIAL`
E	`LAYout`
F	`FiLtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`inPutS`
L	`outPut`
M	`rESEt`
N	`diAG`
O	`AdUAnC`

1	`UCEL`			
2	`CAL.PAr`			
3	`E9uAL.P`			
4	`CAL.AdU`	**1**	`E9.0`
5	`Stb.FLt`	**2**	`E9.1`
6	`PEAK.FL`	**3**	`E9.2`
7	`NEtroL`	**4**	`E9.3`
8	`KEYb`	**5**	`E9.4`
9	`tiLt`		
10	`rEACt`		
11	`LoCK.Kb`		
12	`ALibir`		
13	`Pin.tEC`		
14	`Pin.uSE`		
15	`dFLt.t`		

🏠 ⚙

`E9uAL.P` Equalisation

ⓘ `E9uAL.P` is only visible if the function `E9uAL` (Q-1-7) is activated in the menu `CAL.PAr` (Q-1).
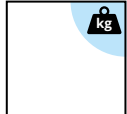
The equalisation wizard asks to acquire the zero point with scale unloaded and to later place a weight of about 1/8 of the maximum capacity (Max) on each individual cell in the required order.
The message `E9.oK` will appear after the procedure.

Proceed with the calibration.
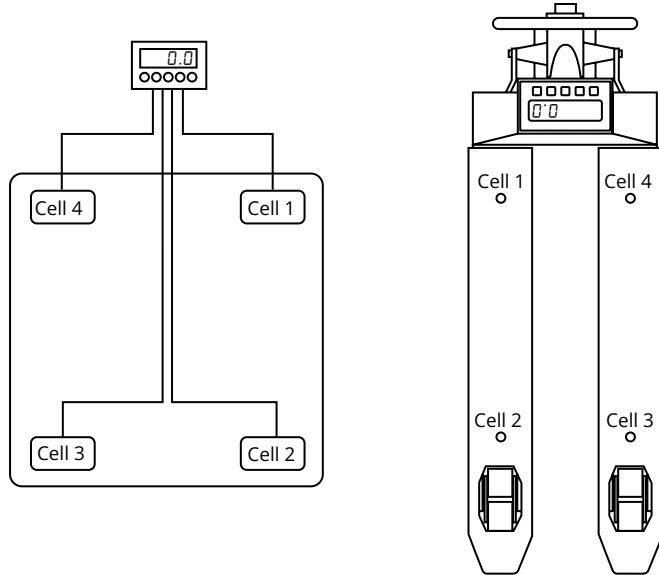
O-3-1 `E9.0` ⏎ `E9.1` -oK-

O-3-2 `E9.1` ⏎ `E9.2` -oK-

kg = 1/8 Max (kg)

O-3-3 `E9.2` ⏎ `E9.3` -oK-

O-3-4 `E9.3` ⏎ `E9.4` -oK-

O-3-5 `E9.4` ⏎ `C` `CAL` -oK-

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ⏎
← = **C**

💾

ⓘ

A	`CAL`
B	`O.CAL`
C	`GrAU`
D	`SEriAL`
E	`LAYout`
F	`FiLtEr`
G	`SCrEEn`
H	`bAtt`
I	`AutoFF`
J	`An.out`
K	`inPutS`
L	`outPut`
M	`rESEt`
N	`diAG`
O	`AdUAnC`

1	`UCEL`
2	`CAL.PAr`
3	`E9uAL.P`
4	`CAL.AdU`
5	`Stb.FLt`
6	`PEAK.FL`
7	`NEtroL`
8	`KEYb`
9	`tiLt`
10	`rEACt`
11	`LoCK.Kb`
12	`ALibir`
13	`Pin.tEC`
14	`Pin.uSE`
15	`dFLt.t`

5 `Stb.FLt` → **1** `2Ero`

🏠 ⚙

`CAL.AdU` Complete calibration

ⓘ Before calibrating, configure the decimals (`dECi` - **Q-1-1**), the division (`diU` - **Q-1-2**) and the capacity (`rAnGE` - **Q-1-4,5,6**).

Start of the calibration procedure:

O-4-1 `2Ero` ── ⏎

Unload the pan, press ⏎ and wait for the message `-oK-`.

`-oK-`

`CAL.Pnt` ── ⏎

Now acquire the calibration points (up to 3):

`n  1` ·· ⏎

I. Set the calibration points (`1...3`)

How to set the value

👆 ⬇ ⬆

`000.000` ·· ⏎

II. Enter the calibration weight

How to set the value

👆 ⬇ ⬆ →
or
⓪ ... ⑨

III. Load the weight and wait

`-oK-`

`000.000` ·· ⏎

Repeat the steps from II for the next points

....

`CAL.oK`

`CAL.Pnt` ◄───
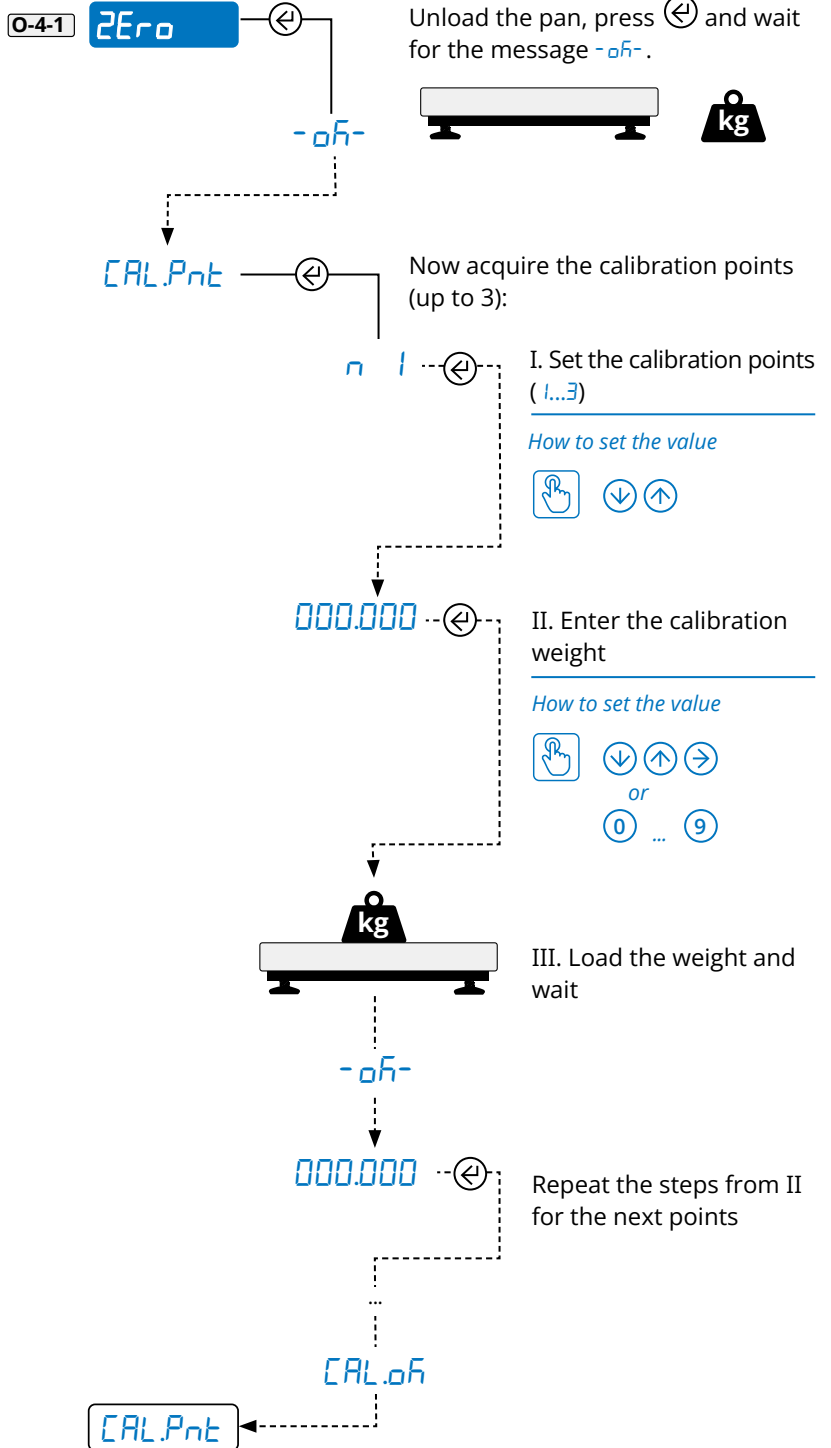
`Stb.FLt` Additional stability filter

O-5 `Stb.FLt`   For use by the manufacturer.

39

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = C

💾

ⓘ

A `CAL`
B `O.CAL`
C `GrAU`
D `SErIAL`
E `LAYout`
F `FiLtEr`
G `SCrEEn`
H `bAtt`
I `AutoFF`
J `An.out`
K `inPutS`
L `outPut`
M `rESEt`
N `diAG`
O `AdUAnC`

1 `UCEL`
2 `CAL.PAr`
3 `EQuAL.P`
4 `CAL.AdU`
5 `Stb.FLt`
6 `PEAK.FL`
7 `NEtroL`
8 `KEYb`
9 `tiLt`
10 `rEACt`
11 `LoCK.Kb`
12 `ALib.ir`
13 `P in.tEC`
14 `P in.uSE`
15 `dFLt.t`

1 `O.PErC`
2 `diU.Stb`
3 `O.trK`
4 `on.ZEro`
5 `CAL.AdU`
6 `CAL.NAn`
7 `d.SALE`

🏠 ⚙

PEAK.FL Anti-peak filter

O-6 `PEAK.FL`   For use by the manufacturer.

NEtroL Metrological parameters   🔒

Resetting percentage using the key

O-7-1 `O.PErC` —↵— `02` —↵—

`diU.Stb` ◄

With approved scale (`0...2`)
With non-approved scale (`0...50`)
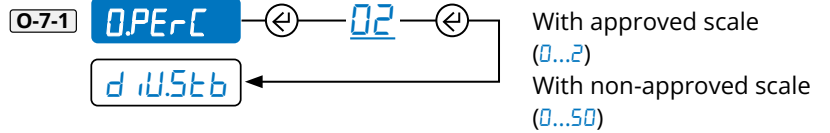
Sensitivity of the weight stability control

O-7-2 `diU.Stb` —↵— `n 02` —↵—

`O.trK` ◄

(`0...99`)
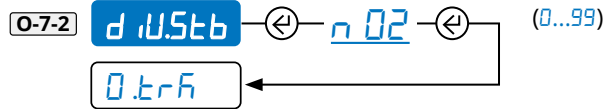
Zero hold function (tracking)
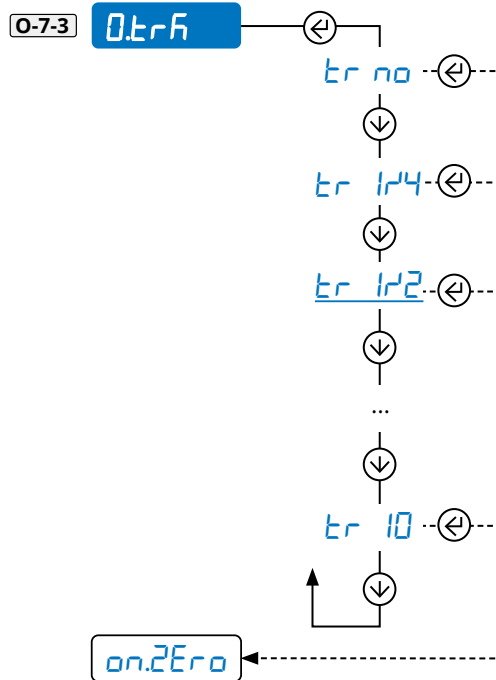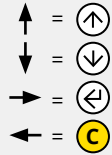
O-7-3 `O.trK` —↵—

`tr no` -↵-
⬇
`tr 1r4` -↵-
⬇
`tr 1r2` -↵-
⬇
...
⬇
`tr 10` -↵-
⬇
`on.ZEro` ◄----

MENU

1. Off ⏻
2. On ⏻
3. ⬆
ⓘ

↑ = ⬆
↓ = ⬇
→ = ↵
← = **C**

💾

ⓘ

A	CAL
B	O.CAL
C	GrAU
D	SErIAL
E	LAYout
F	FILtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	InPutS
L	outPut
M	rESEt
N	dIAG
O	**AdUAnC**

1	UCEL
2	CAL.PAr
3	E9uAL.P
4	CAL.AdU
5	FLt.Stb
6	PEAK.FL
7	**nEtroL**
8	**KEYb**
9	**tILt**
10	rEACt
11	LoCK.Kb
12	ALIbIr
13	PIn.tEC
14	PIn.uSE
15	dFLt.t

1	O.PErC
2	dIU.Stb
3	O.trK
4	**on.2Ero**
5	**CAL.AdU**
6	**CAL.nAn**
7	**d.SALE**

🏠 ⚙

Reset at power and reset percentage

[O-7-4] **on.2Ero** ↵

no ↵

⬇

YES ↵

⬇

C.PErC ---- 10 ↵

CAL.AdU
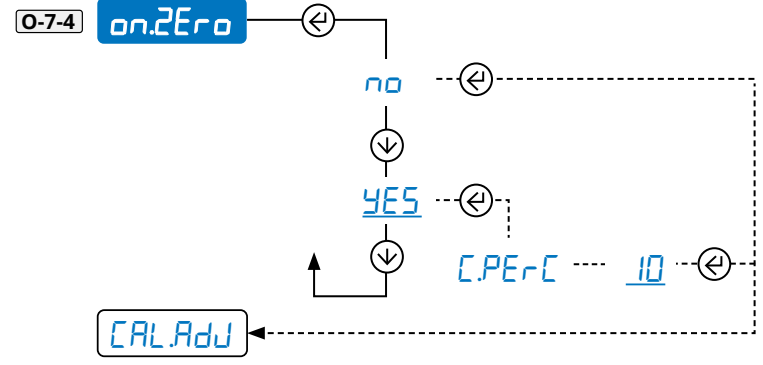
Re-acquisition / change of the calibration points in memory.

[O-7-5] **CAL.AdU**

2Ero ↵ — Change of first calibration point

Point.1 ↵

Point.2 ↵

Point.3 ↵

000000 ↵ — I. Enter the calibration weight (0...999999)

LoAd — II. Load the weight on the scale and wait

cAL.oK
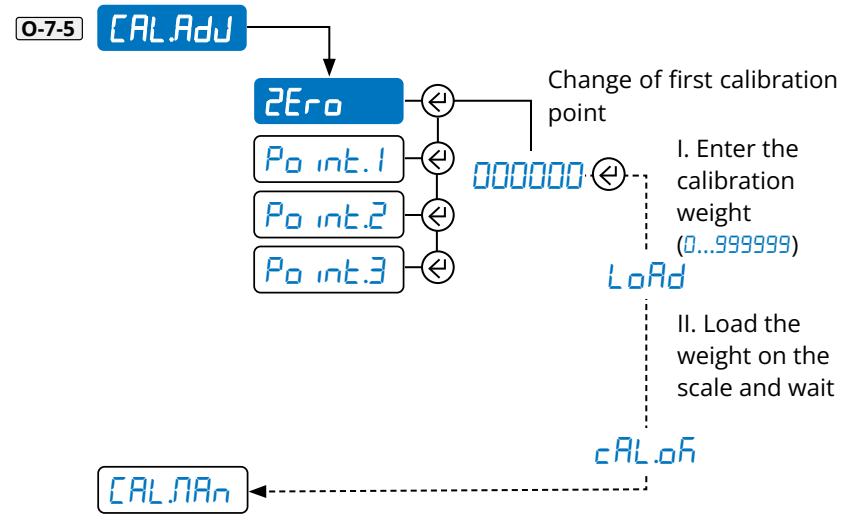
CAL.nAn

ⓘ *Repeat the same operation for Point 1, Point 2 and Point 3*

[O-7-6] **CAL.nAn** — For use by the manufacturer.

[O-7-7] **d.SALE** — For use by the manufacturer.

Type of keypad

[O-8] **KEYb** ↵

norn ---- ↵ — ⬇ ⬆ → ↵ **C**

⬇

Eht ---- ↵ — ⬇ ⬆ → ↵ **C** ①②③ ④⑤⑥ ⑦⑧⑨ F1⓪F2

⬇
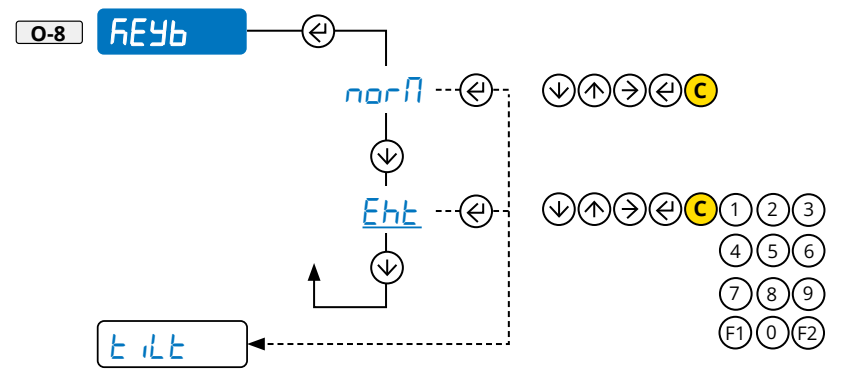
tILt

Inclinometer (for use by the manufacturer)
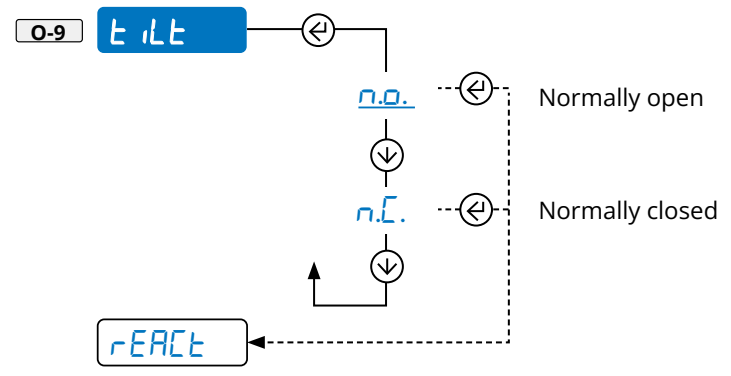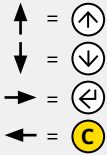
[O-9] **tILt** ↵

n.o. ↵ — Normally open

⬇

n.C. ↵ — Normally closed

⬇

rEACt

MENU

1. Off ⏻
2. On ⏻
3. ⊼

↑ = ⊼
↓ = ⊻
→ = ↵
← = **C**

💾

A	CAL
B	O.CAL
C	GrAV
D	SErIAL
E	LAYout
F	FiLtEr
G	SCrEEn
H	bAtt
I	AutoFF
J	An.out
K	inPutS
L	outPut
M	rESEt
N	diAG
O	**AdVAnC**

1	VCEL
2	CAL.PAr
3	E9uAL.P
4	CAL.AdV
5	Stb.FLt
6	PEAK.FL
7	MEtroL
8	KEYb
9	tiLt
10	rEACt
11	LoCK.Kb
12	ALibir
13	Pin.tEC
14	Pin.uSE
15	dFLt.t

🏠 ⚙

Reactivation of the print or weight totalisation function

O-10 **rEACt** ↵

ZEro ↵ — After unloading the pan

inSt ↵ — When weight is unstable

ALWAYS ↵ — Function always active

LoCK.Kb
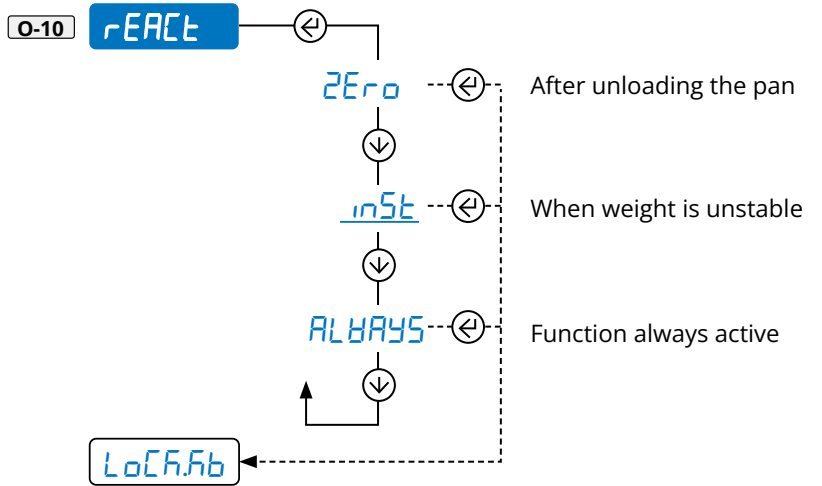
Permanent keypad lock (excluding key C)

O-11 **LoCK.Kb** ↵

no ↵

YES ↵

rEACt
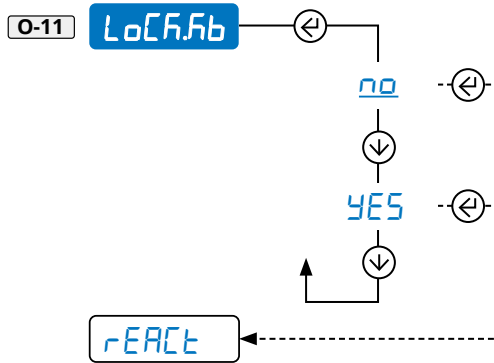
Reset of fiscal memory (alibi memory, optional)

O-12 **ALibir** ↵ SurE? ↵

Pin

👁‍🗨 *Only visible if alibi memory option is present*

Reset is not possible if the instrument is
M🔒 *approved*
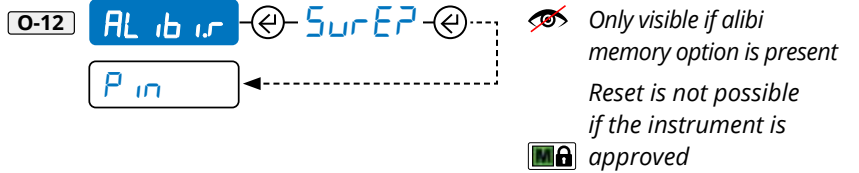
Access PIN to programming menu

O-13 **Pin.tEC** ↵

no ↵

YES ↵

123456 ↵

Pin.uSE

Enter the access PIN

How to set the value

👆 ⊻ ⊼ →
or
⓪ ... ⑨
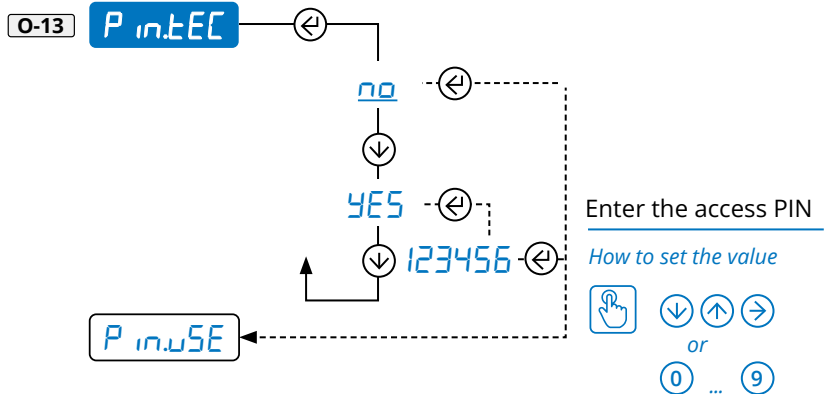
Access PIN to user menus

O-14 **Pin.uSE** See *Pin.tEC*

Total reset of memory and of calibration, with reset of the factory settings.

O-15 **dFLt.t** ↵ SurE? ↵

VCEL

42
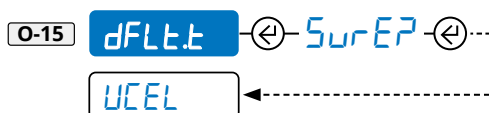
6. COMMUNICATION STRINGS

Short string

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

where

01	Code ꟿ85 of the instrument (2 characters), only if communication mode ꟿ85 is enabled
ST	Scale status (2 characters):
	<u>US</u> - Unstable weight
	<u>ST</u> - Stable weight
	<u>OL</u> - Weight overload (out of range)
	<u>UL</u> - Weight underload (out of range)
,	ASCII 044 character
GS	Type of weight data (2 characters)
	<u>GS</u> - Gross
	<u>NT</u> - Net
,	ASCII 044 character
0.0	Weight (8 characters including the decimal point)
,	ASCII 044 character
kg	Unit of measurement (2 characters)
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

Extended string

> **[01]1, ST,   0.0,PT   20.8,   0,kg<CR><LF>**

where

01	Code ꟿ85 of the instrument (2 characters), only if communication mode ꟿ85 is enabled
1	ASCII 049 character
,	ASCII 044 character
ST	Scale status (2 characters):
	<u>US</u> - Unstable weight
	<u>ST</u> - Stable weight
	<u>OL</u> - Weight overload (out of range)
	<u>UL</u> - Weight underload (out of range)
	<u>TL</u> - Scale not level (inclinometer active)
,	ASCII 044 character
0.0	Net weight (10 characters including the decimal point)
,	ASCII 044 character
PT	Indication of pre-set manual tare (2 characters)
20.8	Tare weight (10 characters including the decimal point)
,	ASCII 044 character
0	Number of pieces (10 characters)
,	ASCII 044 character
kg	Unit of measurement (2 characters)
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

Custom string

Foreword:

The configuration can only be carried out using DiniTools in the "CUSTOM STRING FORMATTING" section.
The maximum length of the string configuration field is 100 characters. Fixed alphanumeric characters or variable macros may be used inside.
There are also "tokens" which define the characters to be displayed in the string.
The custom string can be composed using the macros on page 45

The default custom string setting is shown below:

<2><P><W7.><U><M><S><CR><LF>

where

<2>	ASCII STX character (start of text)
<P>	Weight polarity
<W7.>	Weight (formatted to 7 digits with decimal point)
<U>	Unit of measure
<M>	Type of weight (gross, net, tare)
<S>	Weight status
<CR><LF>	Transmission terminator, characters ASCII 013 and ASCII 010

Default token:

Gross mode token "<M>"	G
Net mode token "<M>"	N
Tare mode token "<M>"	T
Preset weight token "<M>"	T
Unit token "<U>"	K
Positive polarity token "<P>"	SPACE
Negative polarity token "<P>"	-
Invalid status token "<S>"	I
Motion status token "<S>"	M
Valid status token "<S>"	SPACE
Coz status token "<S>"	Z
Overload status token "<S>"	O
Underload status token "<S>"	O
Overload char token "<S>"	&
Underload char token "<S>"	=

The default command to be sent to the weight indicator to request the custom string is:

nnSF#1<CR><LF>

Available macros:

Macro	Defined by	Description	Possible values
<P[G|N|T]>	Weight polarity	This indicates the character displayed depending on the weight polarity	**<P>** Current weight **<PG>** Gross weight **<PN>** Net weight **<PT>** Tare
<U>	Unit of measure	This indicates the units of measurement	**<U>**
<M[G|N|T]>	Weight type	This indicates the character displayed depending on the weight type	**<M>** Current weight **<MG>** Gross weight **<MN>** Net weight **<MT>** Tare
<S>	Weight status	This indicates the status of the weight: - Stable / Unstable - Valid / Invalid - Weight in zero zone - Overload / Underload	**<S>**
<B[-]n,n,...>		This indicates a sequence of exactly 8 bits	
B0	Not used (always **0**)		
B1	Not used (always **1**)		
B2	Configuration		**0** = odd parity **1** = even parity
B3	Dynamic		**1** = "Net" weight type
B4	Dynamic		**1** = weight in zero zone
B5	Dynamic		**1** = stable weight
B6	Dynamic		**1** = negative gross weight
B7	Dynamic		**1** = weight in underload / overload
B8	Not used (always **0**)		
B9	Dynamic		**1** = active tare
B10	Dynamic		**1** = active PT tare
B11	Dynamic		**00** = "Gross" weight type **01** = "Net" weight type **10** = "Tare" weight type **11** = not used
B12	-		Always **00**
B13	Configuration		**00** = not used **01** = division="1" **10** = division="2" **11** = division="5"
B14 - B16	Not used (always **0**)		
B17	Configuration		**000** = 0 decimal places (000000) **001** = 1 decimal place (00000.0) **010** = 2 decimal places (0000.00) **011** = 3 decimal places (000000)
B18 - B20	Not used (always **0**)		

<wspec[-][0]x[[.][y]>	Scale weight	This shows the weight of the scale by defining the length and number of decimal places as below:
		
		wspec = indicates which weight to display. Possible values:
		    W/w (displayed weight)
		    G/g (gross weight)
		    N/n (net weight)
		    T/t (tare)
		    upper case is justified on the right, lower case on the left.
		[-] = includes the sign if the value is negative
		[0] = fill in the blanks with "0"
		x = width of the "weight" field (maximum 15 characters, from 1 to F);
		[.] indicates the presence of the decimal point;
		[y] fixed number of decimals to the right of the point (only if decimal point is present)	

<CR>	Carriage return		
<LF>	Line feed		

Example of custom string configuration to replicate the standard Dini Argeo string:

<u>String definition</u>	1,<S>,<M>,<P><W7.>,<U><CR><LF>
Gross mode token "<M>"	GS
Net mode token "<M>"	NT
Tare mode token "<M>"	T
Preset tare weight token "<M>"	PT
Unit token "<U>"	Depending on the unit of measure
Positive polarity token "<P>"	SPACE
Negative polarity token "<P>"	-
Invalid status token "<S>"	SPACESPACE
Motion status token "<S>"	US
Valid status token "<S>"	ST
Coz status token "<S>"	ZR
Overload status token "<S>"	OL
Underload status token "<S>"	UL
Overload char token "<S>"	(null)
Underload char token "<S>"	(null)

Example of custom string configuration to replicate the extended Dini Argeo string:

<u>String definition</u>	1,<S>,<WA.>,<MT><TA.>, ,<U><CR><LF>
Gross mode token "<M>"	GS
Net mode token "<M>"	NT
Tare mode token "<M>"	SPACESPACE
Preset tare weight token "<M>"	PT
Unit token "<U>"	Depending on the unit of measure
Positive polarity token "<P>"	SPACE
Negative polarity token "<P>"	-
Invalid status token "<S>"	SPACESPACE
Motion status token "<S>"	US
Valid status token "<S>"	ST
Coz status token "<S>"	ZR
Overload status token "<S>"	OL
Underload status token "<S>"	UL
Overload char token "<S>"	(null)
Underload char token "<S>"	(null)

7. COMMUNICATION COMMANDS

Foreword:

in the serial commands and the respective responses

nn   Address 485 of the instrument (2 characters), only if communication mode 485 is enabled
<CR>   ASCII terminator character 13 (0D) (1 character)
<LF>   ASCII terminator character 10 (0A) (1 character)

Simple weight reading

Command	**nnREAD<CR><LF>**
Response	Short string *(see page 42)*

Complete weight reading

Command	**nnREXT<CR><LF>**
Response	Long string *(see page 42)*

Performing a semi-automatic tare

Command	**nnTARE<CR><LF>**
Response	**OK<CR><LF&gt** indicates that the command has been received correctly

Setting a tare value (PT)

Command	**nnTMANtttttttt<CR><LF>**
	Where t…t **is** the tare value, with decimal points, max 8 characters.
Response	**OK<CR><LF&gt** indicates that the command has been received correctly
Examples	**TMAN1.56<CR><LF>**
	sets a tare value of 1.56
	TMAN100<CR><LF>
	sets a tare value of 100

Clearing the stored tare

Command	**nnCLEAR<CR><LF>**
Response	**OK<CR><LF&gt** indicates that the command has been received correctly

Zeroing the scale (ZERO key function)

Command	**nnZERO<CR><LF>**
Response	**OK<CR><LF&gt** indicates that the command has been received correctly

SPECIFIC COMMANDS FOR ALIBI MEMORY (OPTIONAL)

Save requests

Command	**nnPID<CR><LF>** request to save the weighing
Response	successful registration
	nnPIDss,c,wwwwwwwwwwuu,ppttttttttttuu,xxxxx-yyyyyy<CR><LF>
	no registration
	nnPIDss,c,wwwwwwwwwwuu,ppttttttttttuu,NO<CR><LF>

where:

ss	weight status (2 characters)	
	TL	ｔｉＬｔ error condition (NO RECORDING)
	OL	ＯＵＥｒＬｏＲｄ condition (NO RECORDING)
	UL	Underload condition (NO REGISTRATION)
	ST	Stable weight
	US	Unstable weight (NO RECORDING)
c	Scale number (1 character)	
w...w	Gross weight (10 characters)	
uu	Unit of measurement (2 characters)	
pp	Type of tare: double space " " if semi-automatic, "PT" if preset (2 characters)	
t...t	Tare value (10 characters)	
xxxxx	Number of rewrite (5 characters)	
yyyyyy	Progressive weighing (6 characters)	

Example

```
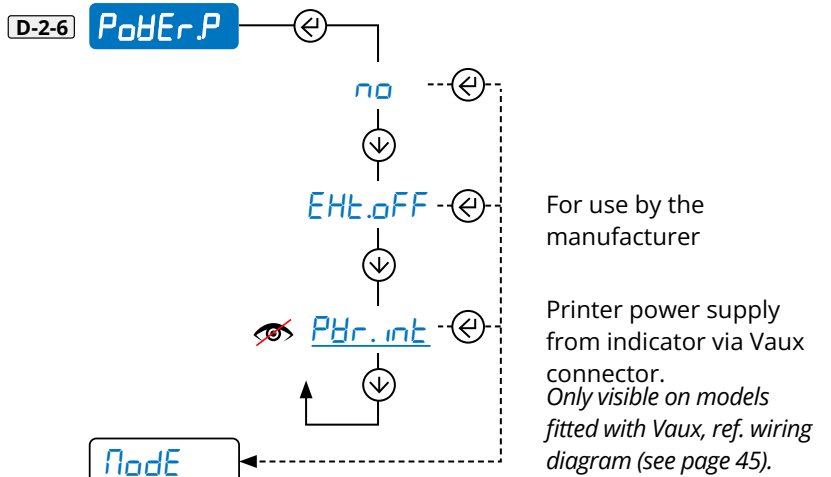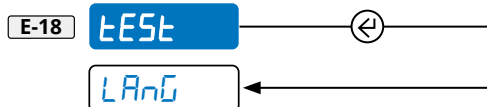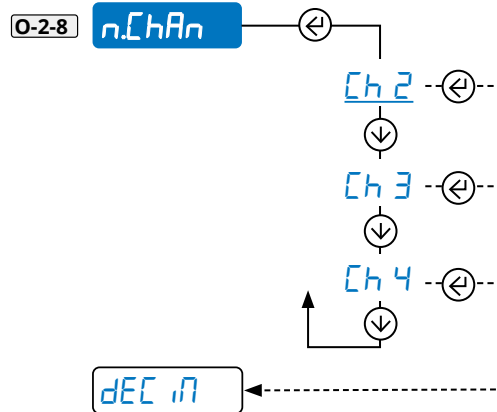PIDST,1,  1500.0kg,PT    2.8kg,00000-000158<CR><LF>
PIDUS,1,  1500.0kg,PT    2.8kg,NO<CR><LF>
```

Reading a stored weighing

Command	**nnALRDxxxxx-yyyyyy<CR><LF>**
	Where xxxxx is the rewrite number, yyyy is the weighing sequence.
Response	**s, w w w w w w w w w w w u u, p p t t t t t t t t t t u u<CR><LF>**

where:

s	Number of scales (always 1)
w...w	Gross weight (10 characters)
uu	Unit of measurement ("g", "kg", " t", "lb")
pp	Type of tare: double space " " if semi-automatic, "PT" if preset (2 characters)
t...t	Tare value (10 characters)

Example

```
ALRD00000-000158<CR><LF>
1,  1500.0kg,      2.8kg<CR><LF>
```

8. WIRING DIAGRAMS

(i) *All cables inside the DFWIECEX must be connected to the terminals by means of a cable lug. The part of the cable outside the sheath (from the shield to the terminal) should be as short as possible.*

CPU board

AUTO ON

SW1

ANALOG OUTPUT SLOT

RS485 SLOT1 (COM1) Default
RS485 SLOT2 (COM2) Optional
RS485 SLOT3 (COM3) Optional

POWER SUPPLY

ANALOG OUT

RS485 COM1
RS485 COM2
RS485 COM3

+Vin GND +Vdc GND

+I -I +V -V

A1+ B1- Rt1 A2+ B2- Rt2 A3+ B3- Rt3

120Ω 120Ω 120Ω

optional optional optional

6 - 9.6 Vdc

6 Vdc 300 mA (max)
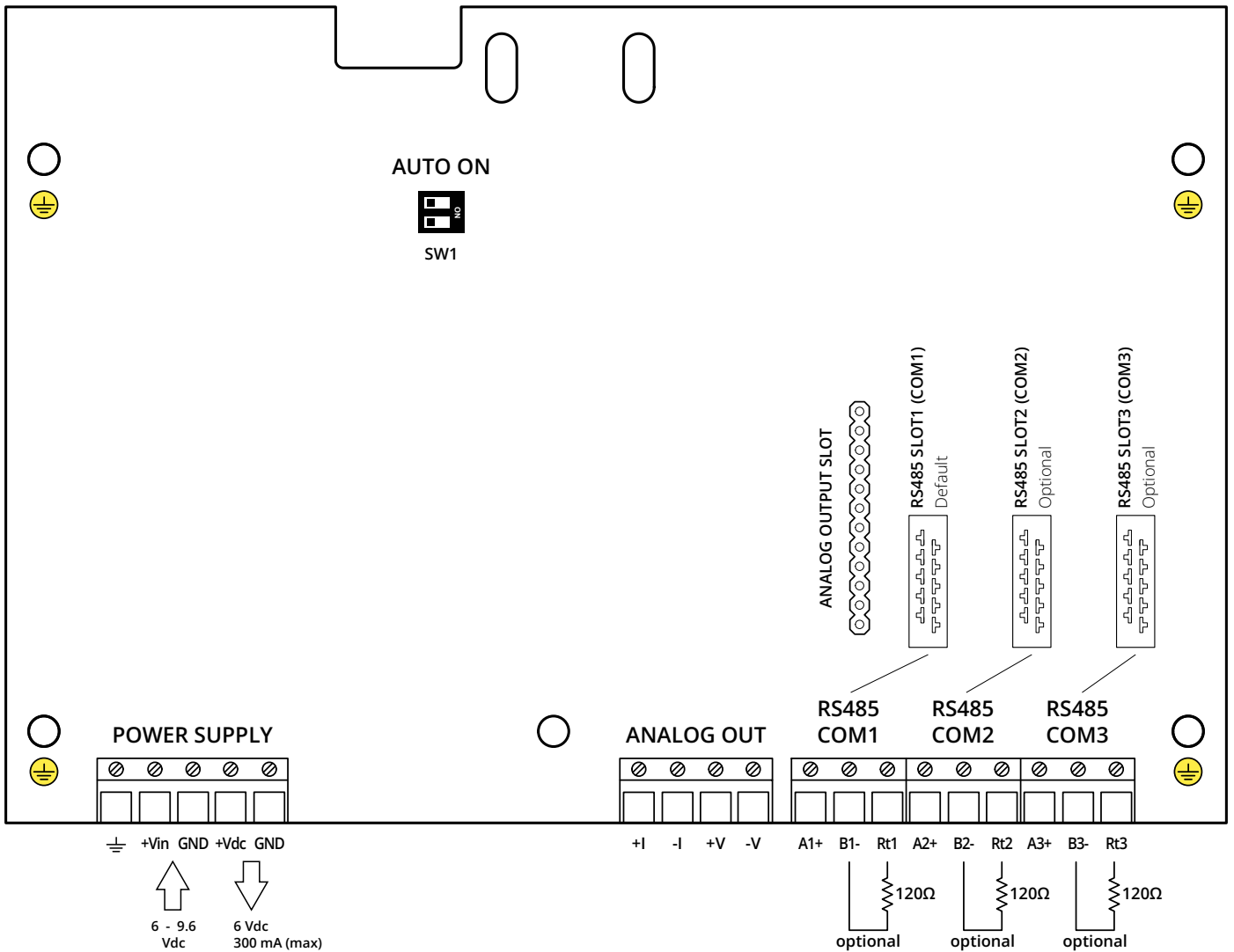
Each connected peripheral (RS485 serial ports, analogue output, Bluetooth) reduces the maximum output current.

⚠️ **WARNINGS:**

Take special care not to short-circuit GND with the +Vin and +Vdc supplies.
This may affect the correct functioning of the communication interfaces.

Display board

DISPLAY BOARD CONNECTOR

SENSOR

BLUETOOTH (front side)

DISPLAY BOARD CONNECTOR

REFERENCE

ON
SEN+   EXC+
ON
SEN-   EXC-

EXT KEYBOARD

I/O EXP

I/O BOARD - CLOCK - ALIBI MEMORY

J 1   Legal   M
J 1   Internal use

BOOT

DISPLAY BOARD CONNECTOR

SW2

ON

CELL 1   CELL 2   CELL 3   CELL 4

BUZZER

SIG+ SIG- REF+ REF- EXC+ EXC-   SIG+ SIG- EXC+ EXC-   SIG+ SIG- EXC+ EXC-   SIG+ SIG- EXC+ EXC-
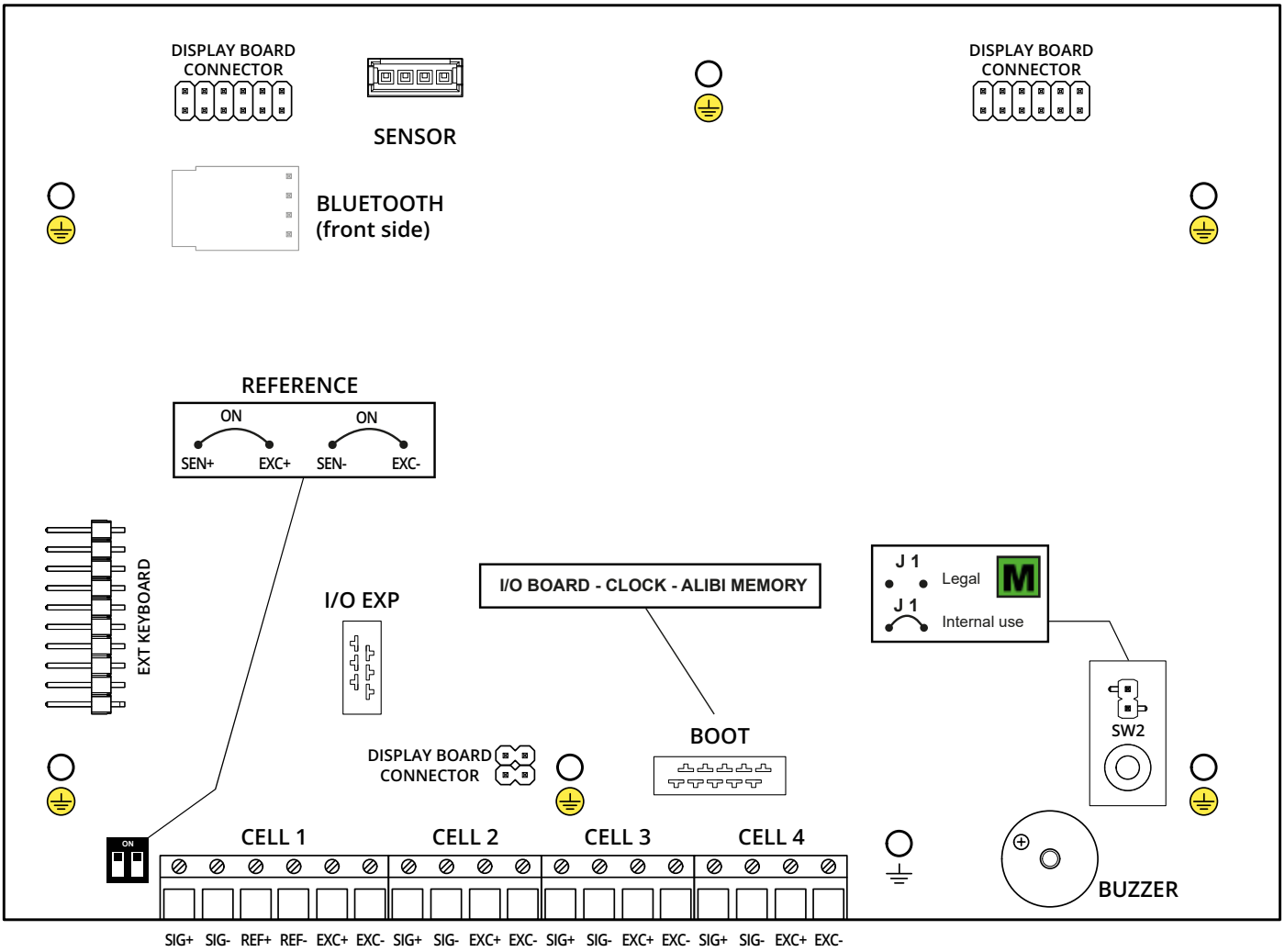
IECEX4IN4OUT option board

VI   CI   CI4   I4   CI3   I3   CI2   I2   CI1   I1

Input is active when CIx is shorted with Ix

TO CPU

When output X is active, VO is shorted with Ox

VO   CO   CO1   O1   CO2   O2   CO3   O3   CO4   O4

50
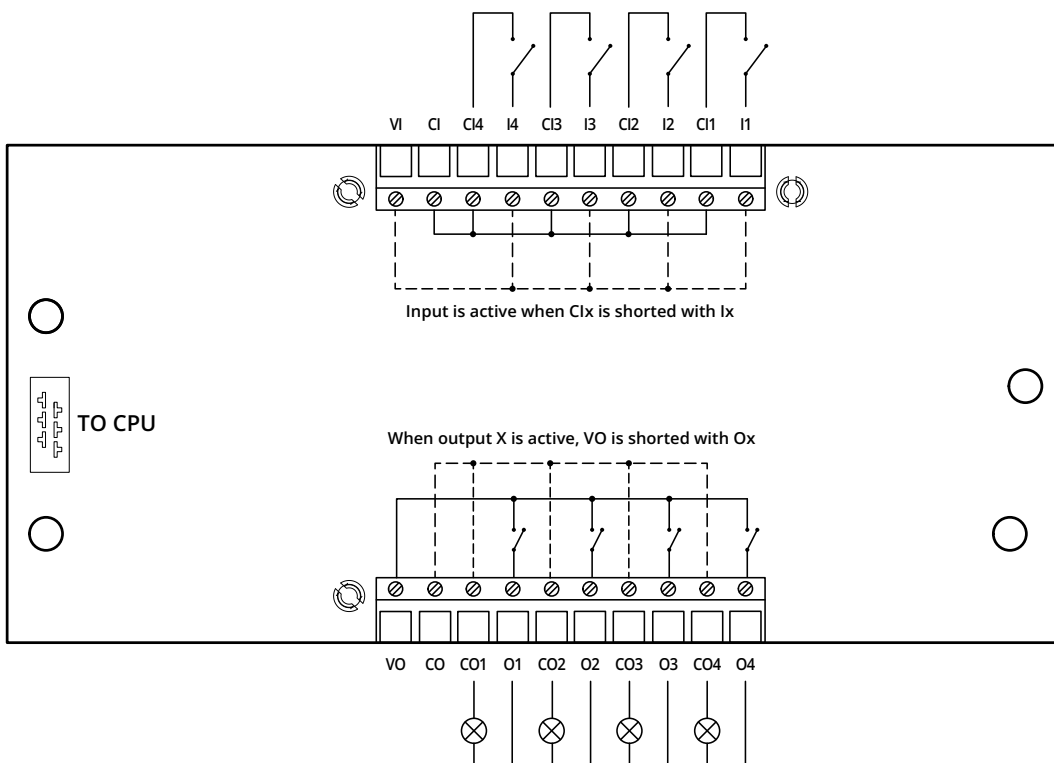
Optional boards

Optional Alibi memory - Clock board
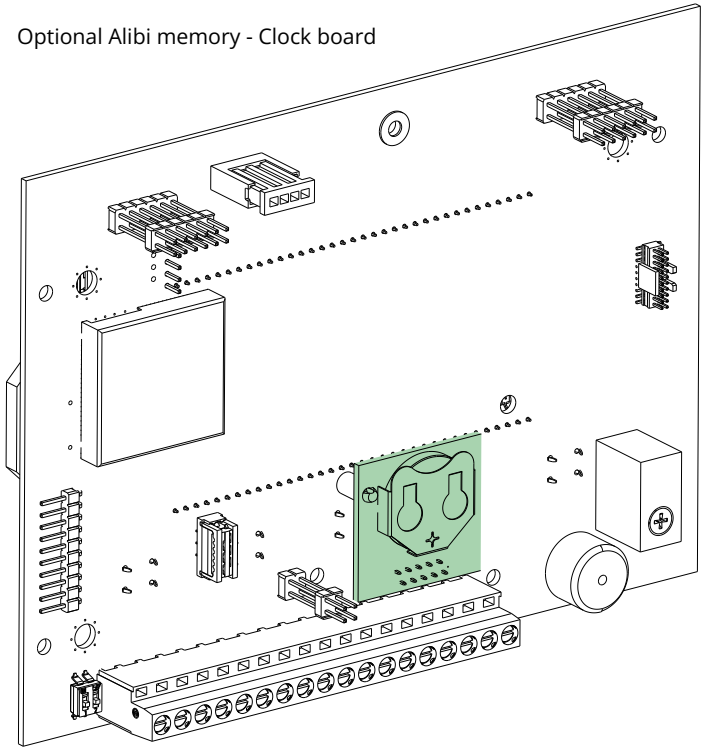
Bluetooth optional board
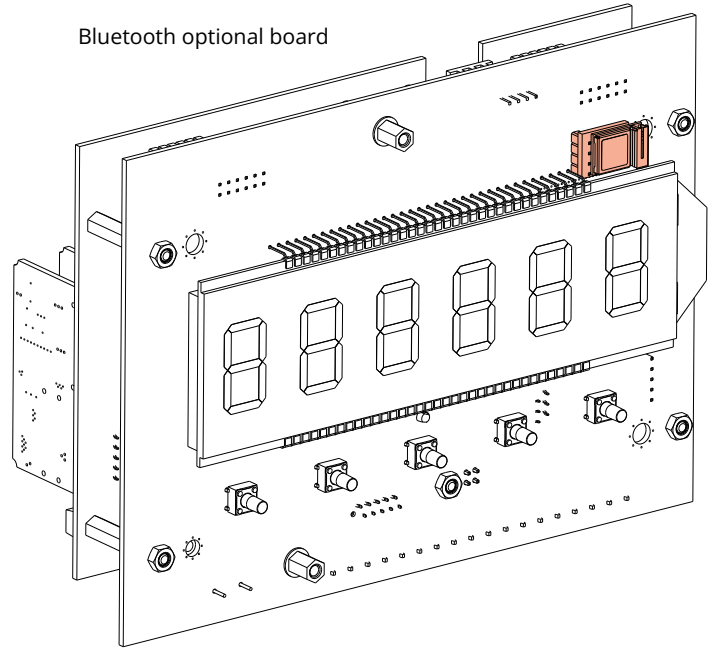
RS485 boards

Analogue output board
(mod. DFWIECEXAN)
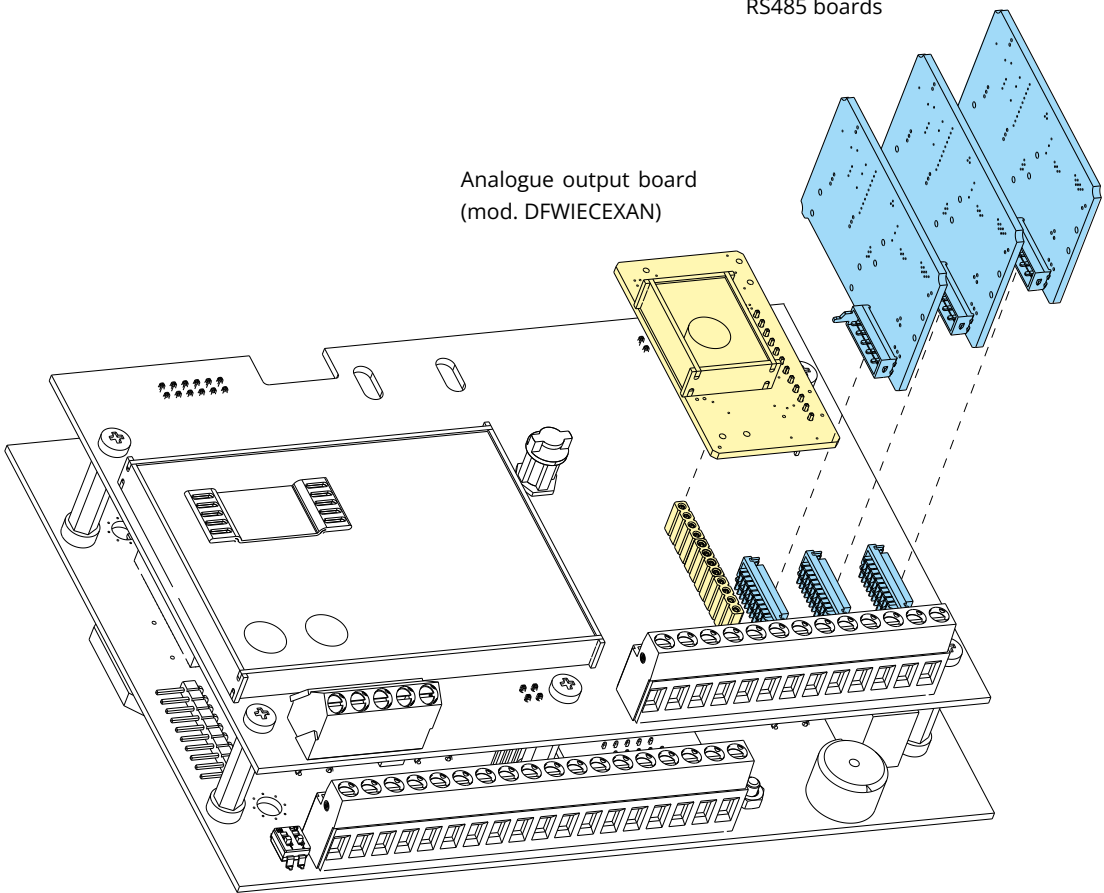
9. PROGRAMMING ERRORS

MESSAGE	DESCRIPTION	SOLUTION
AL.Err	"Alibi memory" board (optional) not detected.	Check the presence of the board inside the indicator. If present, check it is not damaged and is installed correctly.
Er.1.b.H	"inputs / outputs" board (optional) not detected.	Check the presence of the board inside the indicator. If missing, deactivate any inputs or outputs (parameter "inPut5" or "outPut", *see page 32-33)*. If present, check it is not damaged and is installed correctly.
Er.r.b.H		
E9.Err	Impossible to perform equalisation.	Check the cells are connected properly. Check the signal of each cell in the diagnostic menu (menu dIAG, parameter AdC.uU, *see page 34)*.
PrEC.	Calibration error.	First calibrate the zero point, then proceed with the next points.
Err.Pnt	Calibration error.	Check the connection of the load cell. Check that the cell signal is stable, valid and greater than that of the previously acquired point.
Er 11	Calibration error.	Increase the calibration weight.
Er 12	Calibration error.	Check that the signal coming from the cell increases upon the increasing of the weight loaded on the scale. When acquiring the calibration points, use the increasing calibration weights.
Er 37	Calibration error.	Repeat the calibration, checking that the capacity and division have been correctly set.
Er 39	Instrument not configured.	Reset the factory configurations (menu AdUAnC, parameter dFLt.t, *see page 41)*.
Er 85	Instrument configured but not calibrated.	Perform calibration.
C.Er.36	Calibration error.	Check that the signal coming from the load cell is not negative.
Err.Mot	Unstable weight	Check in the menu dIAG, parameter AdC.uU *(see page 34)* that the signal is stable and try again. If the connection of the cells is with 4 wires, check that the sense jumpers are inserted.

10. SUMMARY OF THE PARAMETERS

11. FAQ - Frequently Asked Questions

Calibration

Can I change the maximum capacity without recalibrating?
Yes, you must change the parameters ⌐A∩LE 1.2.3 (Q-1-4,5,6). *(See page 36)*

Can I change the division without recalibrating?
Yes, you must change the parameter d U (Q-1-2). *(See page 36)*

Can I change the position of the decimal point without recalibrating?
Yes, you must change the parameter dEC n (Q-1-1) and the value of the calibration points using step CAL .∩A∩ (Q-5-6). *(See page 36 e 40)*

Can I calibrate the instrument in "multi-division" mode?
Yes, using the advanced configuration function from PC and the Dinitools program.

Communication

Scale doesn't answer
- Check that the cable is in good condition and that there are no faults (use a multimeter).
- Check that the communication port of the PC or device being used is not compromised. If necessary, try another device / PC.
- Check that you have connected the cable to the correct serial port.
- Check that the optional board is present (485IECEX or BTH-IECEX)
- Check step configuration bAud and b t5. *(See page 13)*
- Temporarily activate continuous communication and retry string reception. If the string has been received correctly, carefully check the syntax of the command sent, the communication timeouts and the presence of the terminator.

Generic

The scale does not turn on
- Check that the input voltage level to the motherboard is correct.
- Try the forced power by inserting the "ON BOOT" jumper present on the motherboard. If the indicator lights up, check the correct operation of the keypad, using the diagnostic menu d AL. *(See page 34)*
- Possible failure of the rechargeable battery (if present).

NOTE

NOTE

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Stamp of the authorised service centre