DINI ARGEO
Scales - Weighing systems

GLR100 - GLR100I

37580 kg

EF187FA 12000kg
TICKET 232

GRAPHIC DISPLAY

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Introduction

The purpose of this manual is to familiarise the user with the different operating modes of the weight repeater and the configuration procedure.
We recommend carefully following the instructions when programming the weight repeater; performing actions not indicated in this manual, could jeopardise proper instrument operation.
Depending on the instrument connected, it is possible to display the weight up to 3 different colours: red, green and yellow.
Data is transmitted via 485 or radio communication, depending on the model.

This manual was written with the utmost care but we always welcome feedback on any inaccuracies you may find.

Warnings

The instrument is covered by warranty and **MUST NOT BE TAMPERED WITH BY THE USER** for any reason. Any attempt to repair or modify the unit could expose the user to the risk of electrical shock and will render all warranty conditions null.
All problems with the unit or the system must be communicated to the manufacturer or the dealer from which it was purchased. In any case, **DISCONNECT POWER** before any operations.
The instrument is insulated between the dangerous voltage area and the parts that are accessible to the user.

• Do not use solvents to clean the repeater.
• Do not expose the instrument to direct sunlight or sources of heat.
• Set or secure the indicator and the platform on a base with no vibrations.
• All the indicator connections must be made respecting the applicable standards in the installation area and environment.

Whatever is not explicitly described in this manual is to be considered improper use of the equipment.

Do not install in atmospheres with the risk of explosion.

The crossed out wheelie bin symbol on the product shows that it must be brought to appropriate separate waste collection centres at the end of its life cycle or returned to the dealer when purchasing a new equivalent product. Proper separate collection to then send the product to recycling contributes to preventing possible negative effects on the environment and to health and promotes recycling. Users who dispose of the product illegally shall face administrative sanctions as provided for by law.
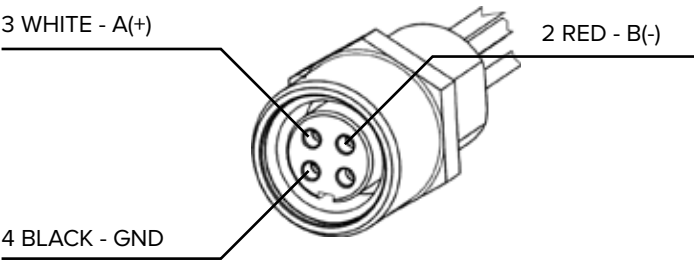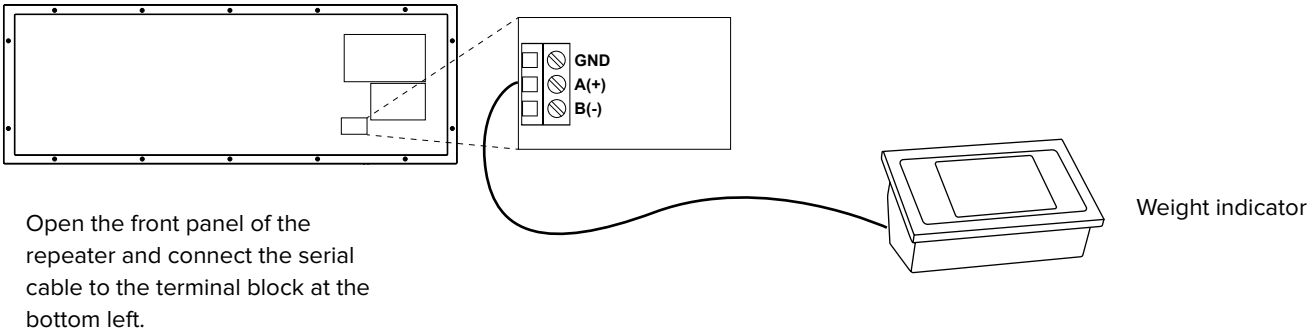
Technical features

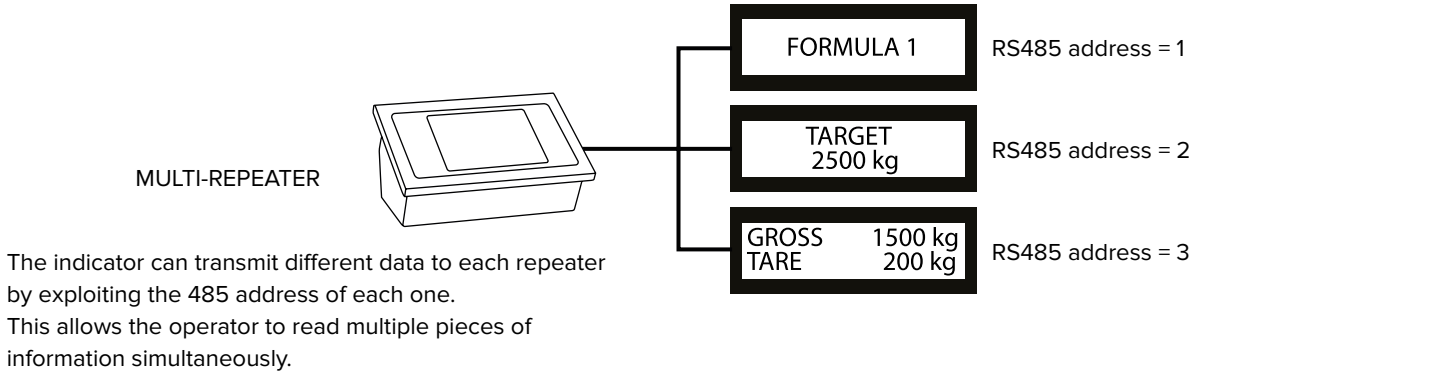|	GLR100	GLR100I
Power supply	100 - 240 VAC 50 / 60 Hz	
Display	RGB LED matrix Panel Display, 600 x 150 mm	
Keyboard	6 digits of 110 mm or 2 42 mm high lines of 16 characters . 3 colours (red, yellow, green)	
Communication	RS485 / Radiofrequency communication (optional)	
Baud Rate	9600 n-8-1	
Case	Painted steel	Stainless steel, with VESA rear mounting (M6, 100x100 mm)
Protection rating	IP54	IP68
External dimensions	835 x 190 x 50 mm	688 x 250 x 57 mm

DINI ARGEO
Scales - Weighing systems

Installation

Wiring

GLR100

3 WHITE - A(+)

2 RED - B(-)

4 BLACK - GND

GLR100I

GND
A(+)
B(-)

Weight indicator

Open the front panel of the repeater and connect the serial cable to the terminal block at the bottom left.

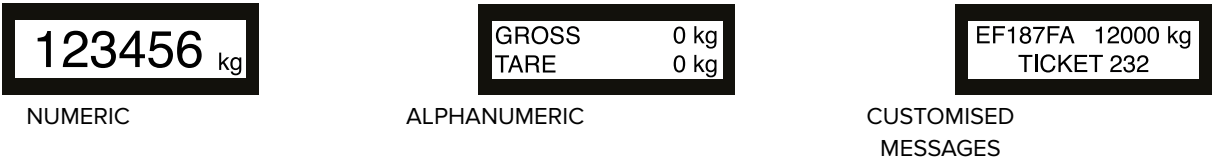## Connection to instrument

GLR100	GLR100I		Weight indicator
RS485	RS485		RS485
A(+)	A(+)	➡	A(+)
B(-)	B(-)	➡	B(-)
GND	GND	➡	GND

⚠ Check that the expansion for RS485 communication is present on the indicator. Consult the technical manual of reference.

GLR100I 🏠

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TECH_MAN_ENG_GLR100_GLR100I

DINI ARGEO
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Operating modes

$$123456 \text{ kg}$$

NUMERIC

```
GROSS        0 kg
TARE         0 kg
```

ALPHANUMERIC

```
EF187FA   12000 kg
        TICKET 232
```

CUSTOMISED
MESSAGES

MULTI-REPEATER

| FORMULA 1 | RS485 address = 1 |

| TARGET 2500 kg | RS485 address = 2 |

| GROSS 1500 kg / TARE 200 kg | RS485 address = 3 |

The indicator can transmit different data to each repeater by exploiting the 485 address of each one.
This allows the operator to read multiple pieces of information simultaneously.
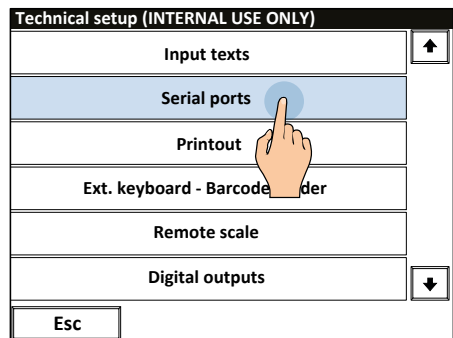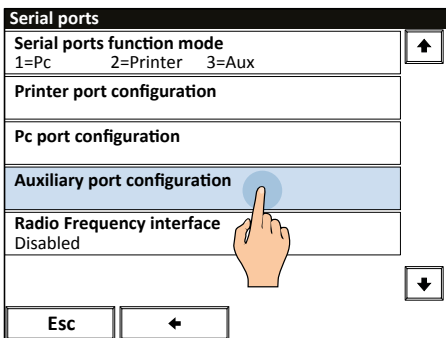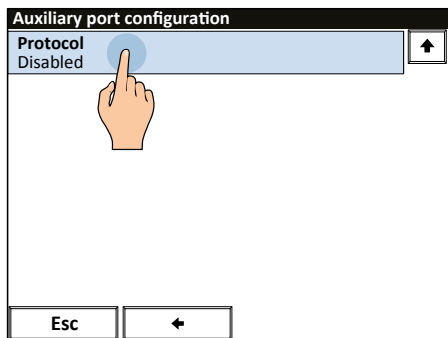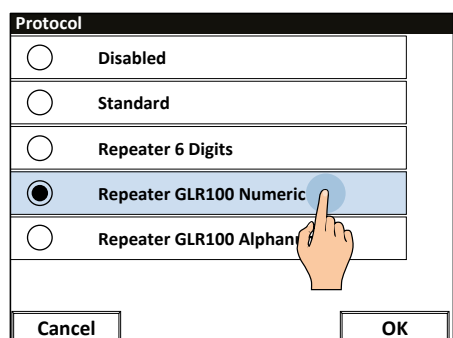
Depending on the connected instrument, it is possible to dynamically change the display colour under pre-established conditions, for instance reaching of the weight threshold or weighing cycle end. In 3590 touch screen models, by assigning a 485 address to multiple repeaters, it is possible to simultaneously display different texts and messages.
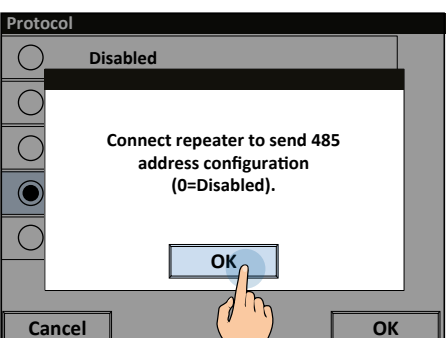
	FUNCTIONING				DISPLAY COLOUR			
	NUMERIC	ALPHANUMERIC	CUSTOMISED MESSAGES	MULTI-REPEATER	RED	YEL-LOW	GREEN	TRAFFIC LIGHT (*)
3590 Touch	•	•	•	•	•	•	•	•
3590E	•		•		•	•	•	
DFW	•				•			
DGT	•				•			

(*) The display colour varies dynamically according to the weight or the operations to be performed.

Indicator configuration 3590 Touch screen

Numerical display

1.

Technical setup (INTERNAL USE ONLY)	
Input texts	⬆
Serial ports	
Printout	
Ext. keyboard - Barcode reader	
Remote scale	
Digital outputs	⬇
Esc	

2.

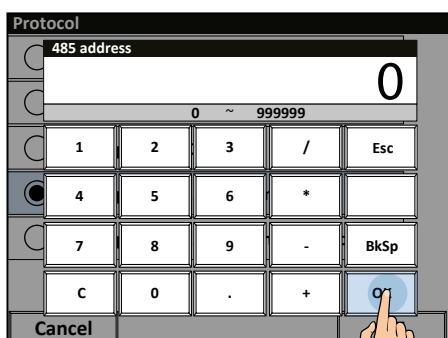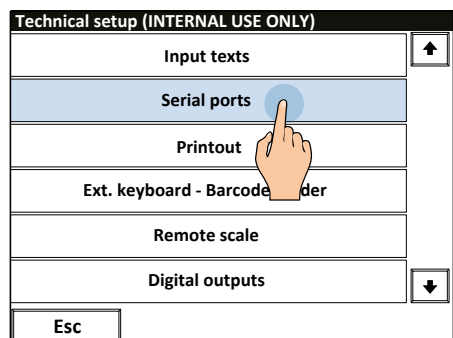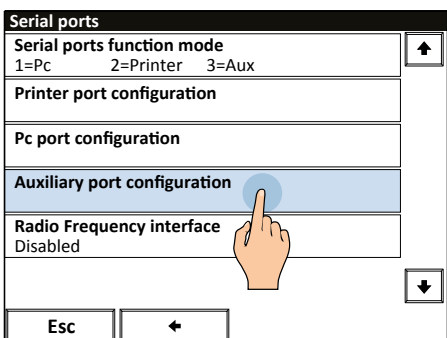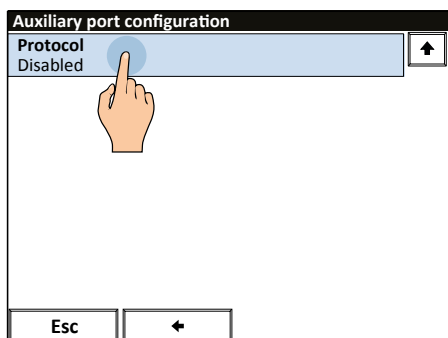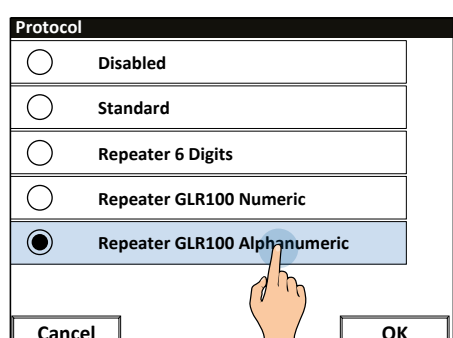| Serial ports	
Serial ports function mode 1=Pc 2=Printer 3=Aux	⬆
Printer port configuration	
Pc port configuration	
Auxiliary port configuration	
Radio Frequency interface Disabled	
Esc ←	⬇

3.

Auxiliary port configuration	
Protocol Disabled	⬆
Esc ←	

4.

Protocol	
○ Disabled	
○ Standard	
○ Repeater 6 Digits	
⦿ Repeater GLR100 Numeric	
○ Repeater GLR100 Alphan	
Cancel	OK

5. **485 Address assignment:** after setting the type of protocol, it is possible to assign a 485 address to the repeater.

Protocol
Disabled

Connect repeater to send 485 address configuration (0=Disabled).

OK

Cancel | OK

6.

Protocol

485 address

0

0 ~ 999999

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	O~

Cancel

Alphanumeric display

1.

Technical setup (INTERNAL USE ONLY)	
Input texts	⬆
Serial ports	
Printout	
Ext. keyboard - Barcode reader	
Remote scale	
Digital outputs	⬇
Esc	

2.

Serial ports	
Serial ports function mode 1=Pc 2=Printer 3=Aux	⬆
Printer port configuration	
Pc port configuration	
Auxiliary port configuration	
Radio Frequency interface Disabled	
Esc ←	⬇

3.

Auxiliary port configuration	
Protocol Disabled	⬆
Esc ←	

4.

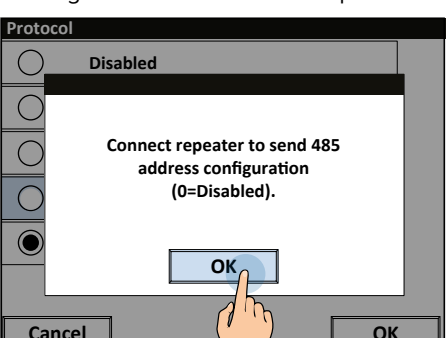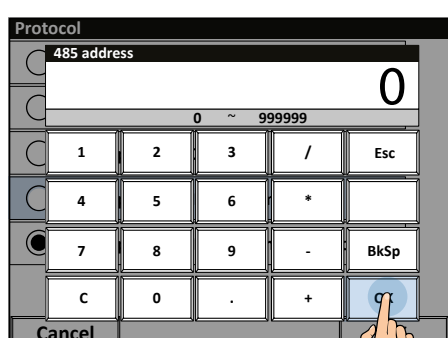| Protocol	
○ Disabled	
○ Standard	
○ Repeater 6 Digits	
○ Repeater GLR100 Numeric	
⦿ Repeater GLR100 Alphanumeric	
Cancel	OK

5. **485 Address assignment:** after setting the type of protocol, it is possible to assign a 485 address to the repeater.

Protocol
Disabled

Connect repeater to send 485 address configuration (0=Disabled).

OK

Cancel | OK

6.

Protocol

485 address

0

0 ~ 999999

1	2	3	/	Esc
4	5	6	*	
7	8	9	-	BkSp
C	0	.	+	O~

Cancel

⚠ Assign address 0 to disable the 485 addressing.
If the 485 address is enabled, it is necessary to customise the communication string (print format 100) with Dinitools.

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Indicator configuration 3590E
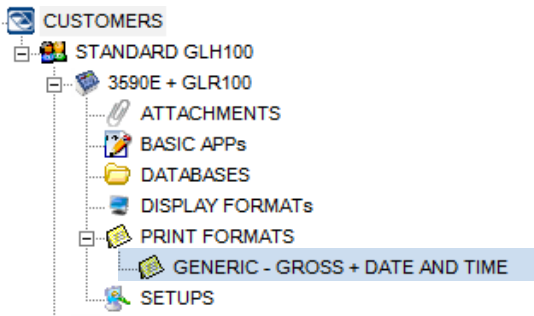
Numerical display
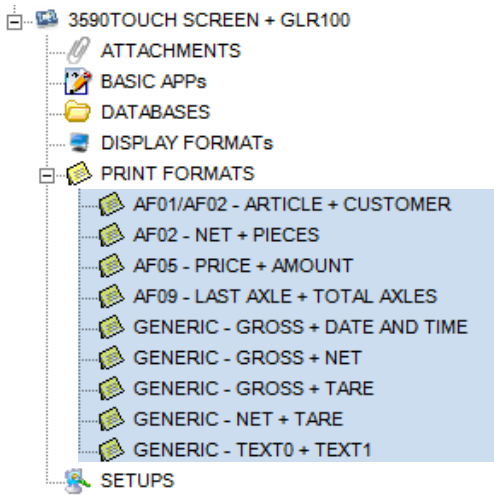
SEtuP → SErIAL → CoNAuH → ProtoC → Cont

Preconfigured messages for 3590 Touch / 3590E indicators

Access the standard Dinitools database and send one of the available configurations to the indicator.

3590E

- CUSTOMERS
  - STANDARD GLH100
    - 3590E + GLR100
      - ATTACHMENTS
      - BASIC APPs
      - DATABASES
      - DISPLAY FORMATs
      - PRINT FORMATS
        - GENERIC - GROSS + DATE AND TIME
      - SETUPS

3590 Touch

- 3590TOUCH SCREEN + GLR100
  - ATTACHMENTS
  - BASIC APPs
  - DATABASES
  - DISPLAY FORMATs
  - PRINT FORMATS
    - AF01/AF02 - ARTICLE + CUSTOMER
    - AF02 - NET + PIECES
    - AF05 - PRICE + AMOUNT
    - AF09 - LAST AXLE + TOTAL AXLES
    - GENERIC - GROSS + DATE AND TIME
    - GENERIC - GROSS + NET
    - GENERIC - GROSS + TARE
    - GENERIC - NET + TARE
    - GENERIC - TEXT0 + TEXT1
  - SETUPS

Customizing messages for 3590 Touch / 3590E indicators

Using Dinitools, edit the 100 print format of the indicator. Enter the custom string in the editor, verify that the print terminator set is CRLF and send the print format to the indicator.

> ⚠️ This function requires the connection of the repeater to the PC port of the weight indicator.
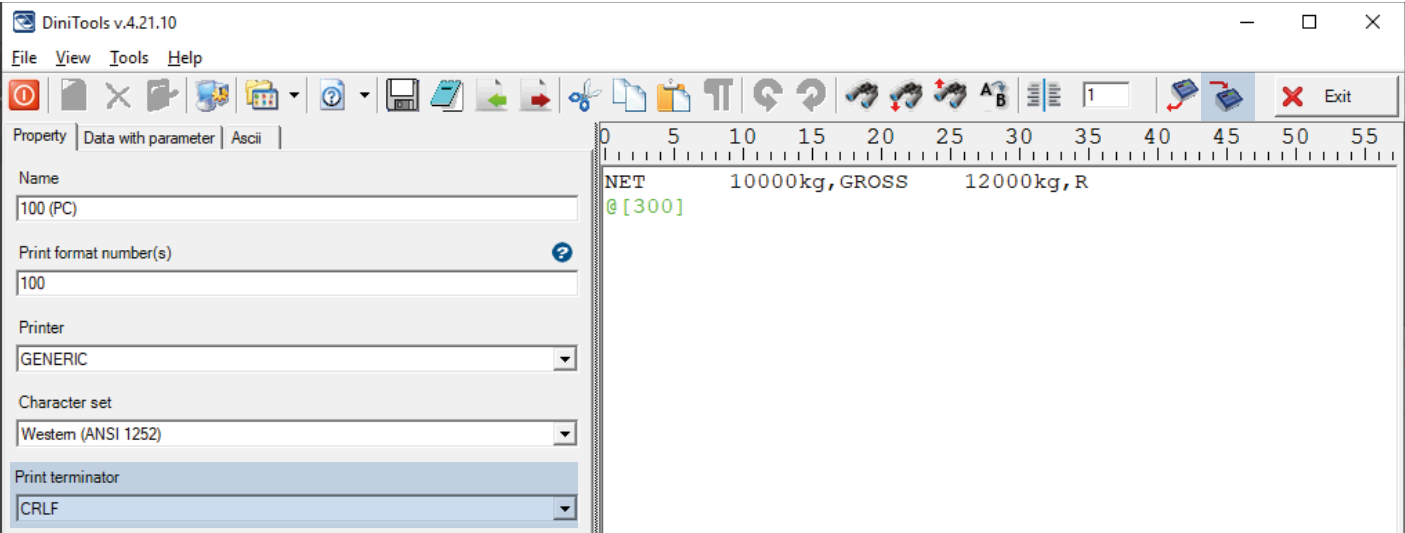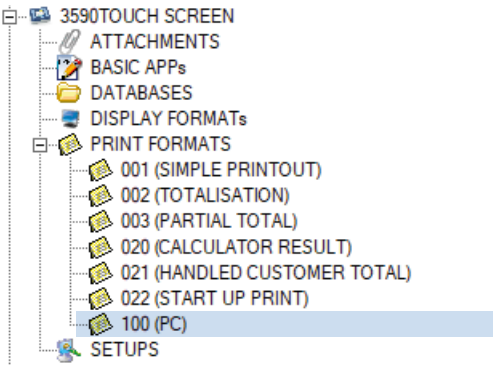
The following table features an example of the structure of the string to be sent, divided by parameter:

[0]	[1]	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
0	1	N	E	T								1	0	0	0	0	k	g	,	G	R	O	S	S					1	2	0	0	0	k	g	,	R	CR	LF

Address 485 (2 Characters, optional)

0	1

First line (16 characters)

N	E	T							1	0	0	0	0	k	g

Second line (16 characters)

G	R	O	S	S					1	2	0	0	0	k	g

Colour (1 character - R = red, Y = yellow, G = Green)
On 3590 Touch screen, in order to use the dynamic colouring, use the print macro @[353;200].

R

Terminator (2 characters - Use terminator [CR][LF])

CR	LF

Indicator configuration DFW

Set if the firmware version is ≥ 04.xx

`SEtuP` → `SErIAL` → `CoNPc` → `NodE` → `Cont in`

Set if the firmware version is ≤ 03.xx

`SEtuP` → `SErIAL` → `CoNPc` → `PCNodE` → `ALL.Std`

Indicator configuration DGT

RS485 communication

Set:

`SEtuP` → `SErIAL` → `CoNPc` → `PCNodE` → `ALL.Std`

`SEtuP` → `SErIAL` → `CoNPc` → `PCSEL` → `485` / `CoN 1`

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DINI ARGEO

Scales - Weighing systems
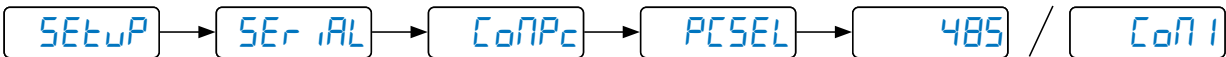
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Authorised service centre stamp