

MANUAL

EDLA

FIVE DIGIT REMOTE DISPLAY

Installation and user manual



Document	Version	Date	Applies to
Installation and user manual	V00x	08/2026	EDLA (L-RIP550SHA)

This manual covers both versions of the display: the current version with an RS232/RS485 serial port and the earlier version with RS232/RS422. Section 3.2 explains how to tell them apart.



Contents

1 About this manual	3
2 Safety, warranty and disposal	3
2.1 User warnings	3
2.2 Warranty	3
2.3 Guidelines for proper disposal	3
3 Product description	3
3.1 Main features	3
3.2 The two versions	3
4 Technical data	4
5 Installation	4
5.1 Mounting	4
5.2 Drilling template	4
5.3 Dimensions	5
6 Electrical connections	5
6.1 Basic information	5
6.2 Terminals, version Rev 2 (RS232/RS485)	5
6.3 Terminals, version Rev 1 (RS232/RS422)	6
6.4 RS232 connection	6
6.5 RS485 and RS422 connection	6
7 Commissioning	7
7.1 Messages at power on	7
7.2 DIP switches and the P1 button	7
7.3 Data format	8
7.4 Number of decimals	8
7.5 Baud rate	8
7.6 Net or gross display	9
7.7 Timeout	9
8 Approvals and standards	9
9 Service	9

1 About this manual

This manual applies to the five digit remote display **EDLA**, type **L-RIP550SHA**. The display repeats a weight value that it receives over a serial line; it does not measure and it cannot be calibrated.

Values shown in a fixed-width typeface are the texts as they appear on the display, for example **N-8-1**. Terminal numbers refer to the printed numbers on the board.

Two versions. The wiring differs between the two versions. Read section 3.2 before you connect anything.

2 Safety, warranty and disposal

2.1 User warnings

- Read the instructions before installing and using the display.
- Installation, electrical connection and commissioning must be carried out by qualified personnel only.
- Disconnect the supply voltage before opening the housing or working on the wiring.
- Do not use the display outside the ambient conditions stated in section 4.
- Keep this manual available for the whole service life of the display.

2.2 Warranty

24 months from the date of the delivery note. The warranty covers failures of defective components due to construction defects or defects in materials and includes replacement or repair of the components and the related labour costs. The warranty is automatically forfeited in the event of tampering, removal of the identification label or serial number, misuse, transformation, alteration, or repair not carried out by the manufacturer.

2.3 Guidelines for proper disposal

This is electrical and electronic equipment and must not be disposed of as municipal solid waste; it has to be delivered to a recycling centre. Improper use or disposal can pollute the environment or damage human health. Dispose of the packaging as required by local regulations.

3 Product description

3.1 Main features

- Five semi-alphanumeric red LED digits, 57 mm high, readable up to 20 m.
- Waterproof plastic housing, IP56, for wall mounting.
- Serial input for the weight value; no measuring circuit and no calibration.
- Supply 12 to 24 V DC, 10 W.
- Data format, number of decimals, baud rate, net or gross display and timeout are set with two DIP switch banks and one push button — no software needed.

3.2 The two versions

The display exists in two versions. They differ in the serial interface and, with it, in the terminals. Open the housing and look at the terminal blocks:

Version	Serial interface	Terminals
Rev 2 · current	RS232 / RS485	two blocks: CON1 with five terminals, CON2 with two
Rev 1 · earlier	RS232 / RS422	one block with ten terminals

Everything else is identical: housing, display, supply, baud rates and the settings described in section 7.

4 Technical data

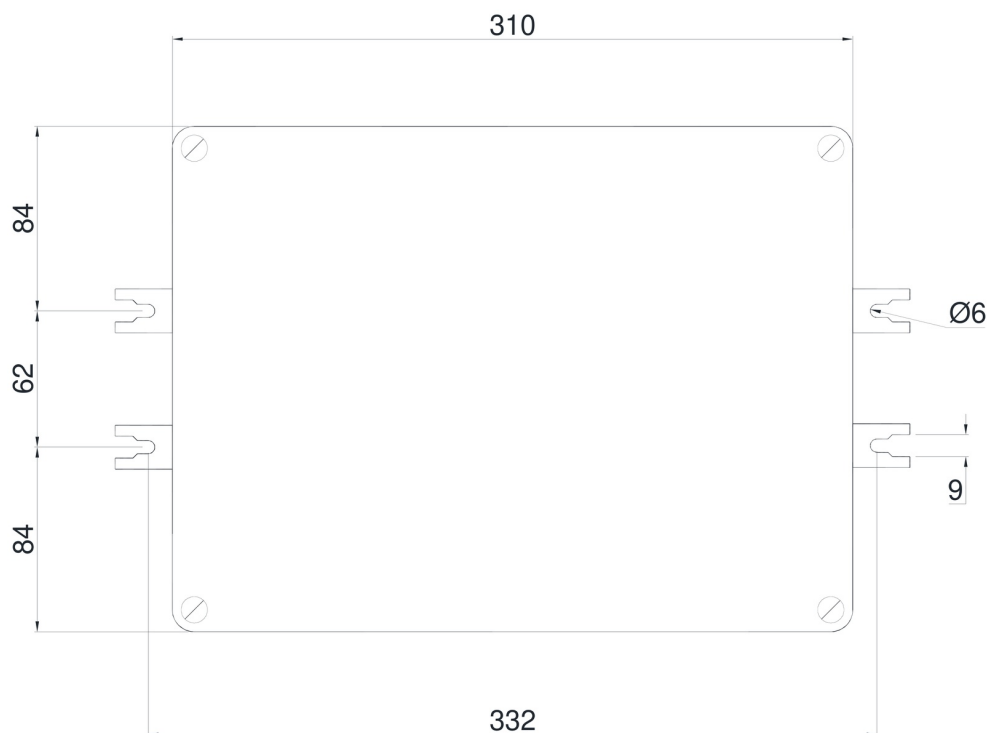
Parameter	Value
Supply voltage	12 ... 24 V DC
Power consumption	10 W
Display	5 digits, semi-alphanumeric, red LED, 57 mm high
Reading distance	up to 20 m
Serial port, Rev 2	RS232 / RS485
Serial port, Rev 1	RS232 / RS422
Protocol	ASCII
Baud rate	1 200 · 2 400 · 4 800 · 9 600 · 19 200 · 38 400 · 57 600 bit/s
Max cable length	RS232 15 m · RS422 and RS485 1 000 m
Working temperature	-10 °C ... +40 °C, humidity max 85 % condensate free
Storage temperature	-20 °C ... +50 °C
Protection rating	IP56, waterproof plastic box
Dimensions	310 x 230 x 130 mm
Drilling template	332 x 62 mm, hole Ø 6 mm
Mounting	wall

5 Installation

5.1 Mounting

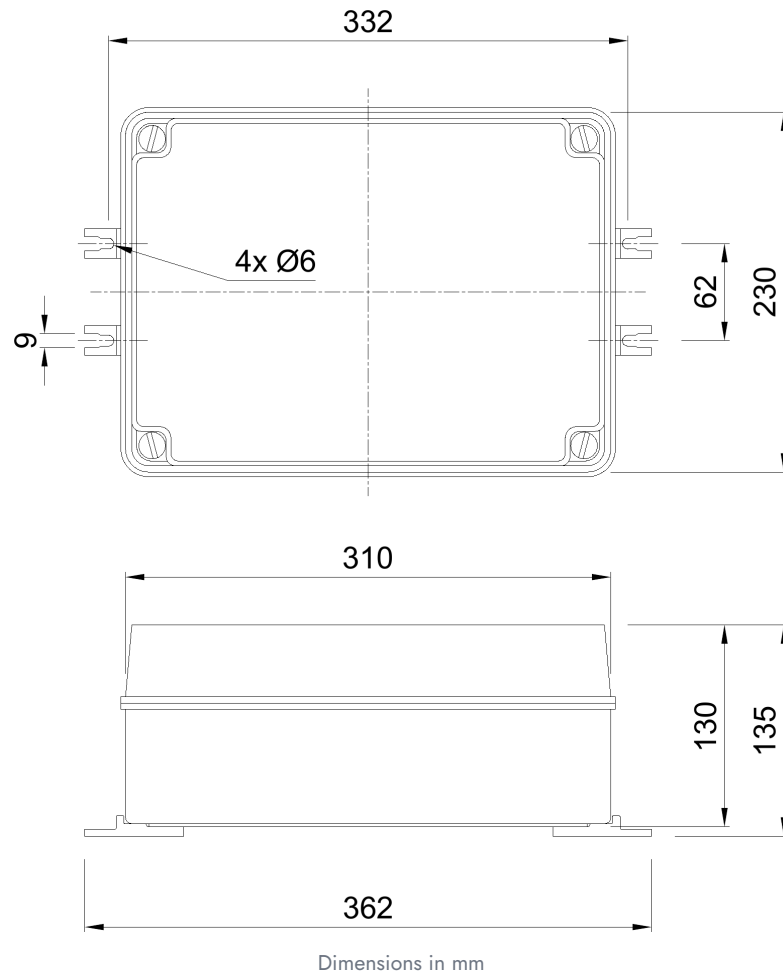
- Mount the display on a flat wall, at a height and angle where the digits are not obscured and no lamp shines straight into the front panel.
- The four mounting brackets sit on the sides of the housing. Use four screws through the Ø 6 mm holes.
- The serial cable must not run together with power cables; give it its own path.
- Keep to the working temperature range even in summer: a display in direct sunlight behind glass gets much warmer than the hall.

5.2 Drilling template



Drilling template · four holes Ø 6 mm, 332 mm apart across the brackets and 62 mm apart vertically · dimensions in mm

5.3 Dimensions



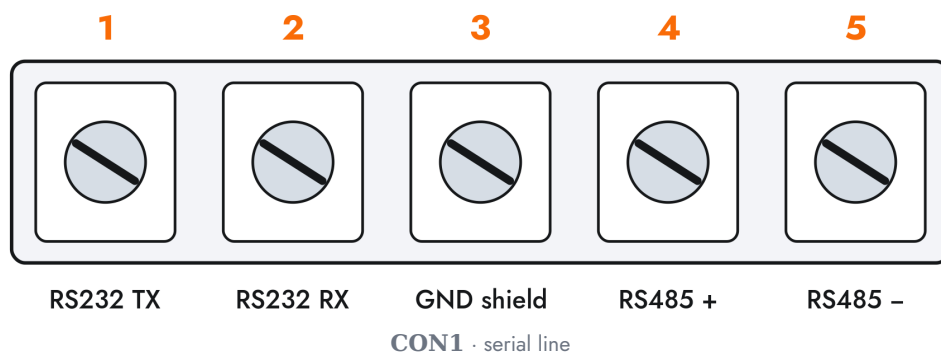
6 Electrical connections

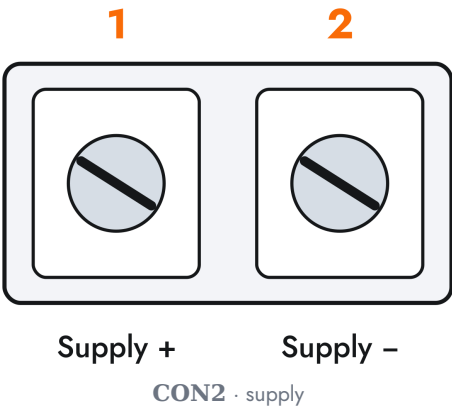
6.1 Basic information

- Disconnect the supply before working on the terminals.
- Use a shielded cable and ground the shield at one end only.
- If the cable has more conductors than are used, connect the free conductors to the shield.
- For RS422 and RS485 use a cable with two twisted pairs and a shield.
- An RS232 line longer than 3 m is not recommended; use RS422 or RS485 instead.

Direction. The display only receives. It is wired to the transmitting side of the weight transmitter or indicator, never the other way round.

6.2 Terminals, version Rev 2 (RS232/RS485)





6.3 Terminals, version Rev 1 (RS232/RS422)

1	not used	6	RS422 TX -
2	RS232 RX	7	RS422 RX -
3	RS232 TX	8	RS422 RX +
4	GND · cable shield	9	+ Supply 12 ... 24 V DC
5	RS422 TX +	10	- Supply 12 ... 24 V DC

The display only receives: wire RS422 RX, terminals 7 and 8
Terminal 1 is listed so that the numbering is not shifted

Terminal block of the earlier version · terminal 1 is not used

6.4 RS232 connection

On the display, use the RS232 receive line and the ground:

Display	RS232 RX	GND
Rev 2	terminal 2	terminal 3
Rev 1	terminal 2	terminal 4

On the other side, connect the transmit line and the ground of the weight transmitter or indicator:

Weight transmitter or indicator	TXD	GND
WL · WT — connector J1	3	5
WR — COM1	3	5
W60000	6	8
LCD2	7	9
TLA600	25	26

6.5 RS485 and RS422 connection

Both sides need the serial interface. On the display:

Display	Interface	-	+
Rev 2	RS485	terminal 5	terminal 4
Rev 1	RS422 RX	terminal 7	terminal 8

On the other side:

Weight transmitter or indicator	-	+
WR — COM2 · WL · WT — J1 · WD — J2	6 TXD-	4 TXD+
W60000	10 TXD-	9 TXD+
LCD2	11 TX-	10 TX+
TLA600	20 TX-	19 TX+

Weight transmitter or indicator	–	+
ETLF (TLS) · TLU	29 –	28 +
ETLG (TLB)	18 –	17 +
EILA (W100) · EILB (W200) · WDOS	17 –	18 +
ETLG (TLB) with PROFINET-IO	20 –	19 +

Watch the polarity. The numbers of the two lines are not in the same order on every instrument: on **ETLG** the minus line is terminal 18, on **EILA** and **EILB** it is terminal 17. Read the row, do not carry a number over from another instrument.

7 Commissioning

7.1 Messages at power on

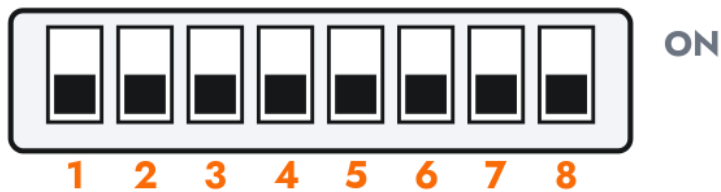
After the self test the display shows its identification code and software version, then the four current settings, each for about 1.5 seconds:

Display shows	Meaning
H6003	identification code — quote it when you ask for support
REV xx	software version
BAUD then e.g. 9600	baud rate
FORM then e.g. N-8-1	data format
VISUA then LORDO or NETTO	display mode, gross or net
DEC x	number of decimals

7.2 DIP switches and the P1 button

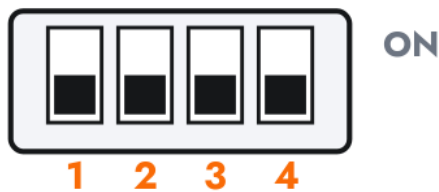
Five settings are made with two DIP switch banks and the **P1** button on the board. Each bank switch selects one setting; **P1** steps through its values.

DIP1



1 data format

DIP2



1 number of decimals

2 baud rate

3 net or gross display

4 timeout



P1 steps through the values of the selected setting

All switches stand on OFF during normal operation

Switch to ON, set the value with P1, switch back to OFF to save

DIP switch banks and the **P1** button

Always back to OFF. A value is stored when you move the switch back to OFF. During normal operation every switch of **DIP1** and **DIP2** stands on OFF.

7.3 Data format

- Move switch 1 of **DIP1** to ON. The display shows the current format.
- Press **P1** to step through the twelve formats: **E-7-1**, **N-7-1**, **O-7-1**, **E-7-2**, **N-7-2**, **O-7-2**, **E-8-1**, **N-8-1**, **O-8-1**, **E-8-2**, **N-8-2**, **O-8-2**.
- Move switch 1 of **DIP1** back to OFF to save.

Standard setting. For W60000, WL, WT, WD and WR set **N-8-1**.

7.4 Number of decimals

- Move switch 1 of **DIP2** to ON.
- Press **P1** to select 0 to 4 decimals.
- Move switch 1 of **DIP2** back to OFF to save.

This setting only has an effect with protocols that contain a comma or a decimal point.

7.5 Baud rate

- Move switch 2 of **DIP2** to ON.

- Press **P1** to select 1 200, 2 400, 4 800, 9 600, 19 200, 38 400 or 57 600 bit/s.
- Move switch 2 of **DIP2** back to OFF to save.

Limit. For a WD instrument set 9 600 bit/s at most.

7.6 Net or gross display

- Move switch 3 of **DIP2** to ON. The display shows **LORDO** for gross or **NETTO** for net weight.
- Press **P1** to change the setting.
- Move switch 3 of **DIP2** back to OFF to save.

7.7 Timeout

- Move switch 4 of **DIP2** to ON.
- Press **P1** to select 0, 3, 10, 30 or 60 seconds.
- Move switch 4 of **DIP2** back to OFF to save.

If the display receives no string within the timeout, it shows the timeout message. With 0 seconds the function is switched off — the display then keeps the last value on screen even if the line is dead.

8 Approvals and standards

Declarations of conformity dated 2025-04-04, for the models RIP 5 / 50 / S / HA:

Mark	Legislation	Standards
CE	EMC Directive 2014/30/EU	EN 61000-6-2: 2005 · EN 61000-6-3: 2007 + A1: 2011
UKCA	Electromagnetic Compatibility Regulations 2016	BS EN 61000-6-2: 2005 · BS EN 61000-6-3: 2007 + A1: 2011

The display is not an approved weighing instrument and carries no metrological approval. Where a weight has to be legal for trade, the approval belongs to the weighing instrument that sends the value, not to the display that repeats it.

9 Service

For support please have the identification code and software version ready — the display shows both at power on (section 7.1) — together with the version, Rev 1 or Rev 2.

octogon GmbH	Roseggerstrasse 16, 8700 Leoben, Austria
Phone	+43 676 3628453
Email	office@octogon.org
Web	www.octogon.org