

MANUAL

EDLC

TWO LINE REMOTE DISPLAY

Installation and user manual



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

This manual covers the display in both cases: connected to indicators of the WR or WD series, and connected to indicators of the WG or WB series. Section 3.3 shows what the two lines display in each case, section 6.4 how to wire them.



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1 About this manual

This manual applies to the two line remote display **EDLC**, type **L-RIPDOSMANHA**. The display repeats values that it receives over a serial line and guides an operator through manual batching; it does not weigh and it cannot be calibrated. Values shown in a fixed-width typeface are the texts as they appear on the display, for example **dos.man**. Terminal numbers refer to the printed numbers on the boards.

Two cases. What the second line shows and where the serial cable goes depend on the indicator in front of the display. Read sections 3.3 and 6.4 before you wire 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.

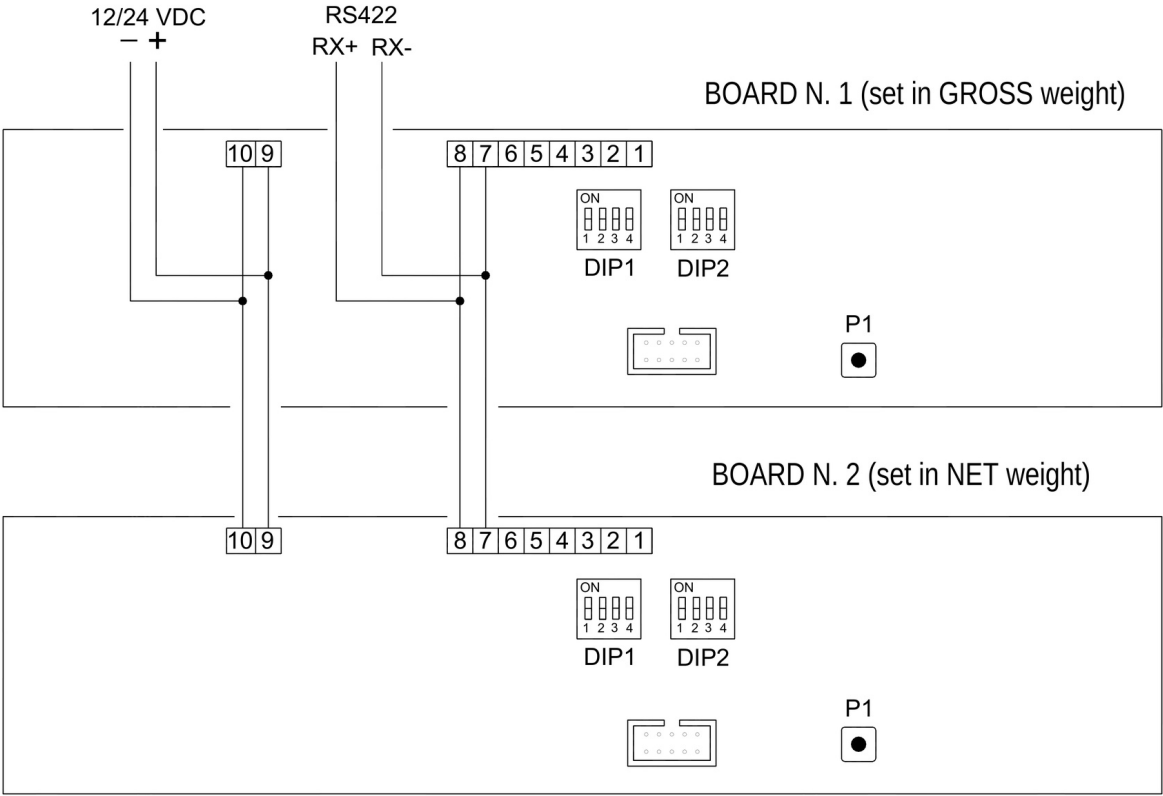
3 Product description

3.1 Main features

- Two lines of eight semi-alphanumeric red LED digits, 57 mm high, readable up to 20 m.
- Waterproof plastic housing, IP56, for wall mounting.
- Serial input over RS232 or RS422; no measuring circuit and no calibration.
- Supply 12 to 24 V DC, 30 W.
- Decimals, baud rate, net or gross display and timeout are set with DIP switches and one push button — no software needed.

3.2 The two boards

One line, one board. Each board has its own terminal strip, its own DIP switches and its own **P1** button, and both boards hang in parallel on the supply and on the serial line:



The two boards · supply on terminals 9 and 10, RS422 on 7 and 8 · both in parallel

Not interchangeable. Board 1 must be set to gross weight and board 2 to net weight (section 7.5). Set the other way round, the two lines show the wrong values — the display gives no warning.

3.3 What the two lines show

This is where the two cases differ. With indicators of the WR or WD series:

Line	Shows
Upper line, board 1	number of the formula and the gross weight
Lower line, board 2	number of the product and the quantity still to be batched, counting down to zero while loading

With indicators of the WG or WB series:

Line	At rest	During batching
Upper line, board 1	number of the scale and the gross weight	number of the formula and the gross weight
Lower line, board 2	status of the indicator, for example standby or constants	product and net weight — but only if the product is assigned to the scale of this display; if it is not, the line shows dos.man

4 Technical data

Parameter	Value
Supply voltage	12 ... 24 V DC
Power consumption	30 W
Display	2 lines x 8 digits, semi-alphanumeric, red LED, 57 mm high
Reading distance	up to 20 m
Serial port	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 1 000 m

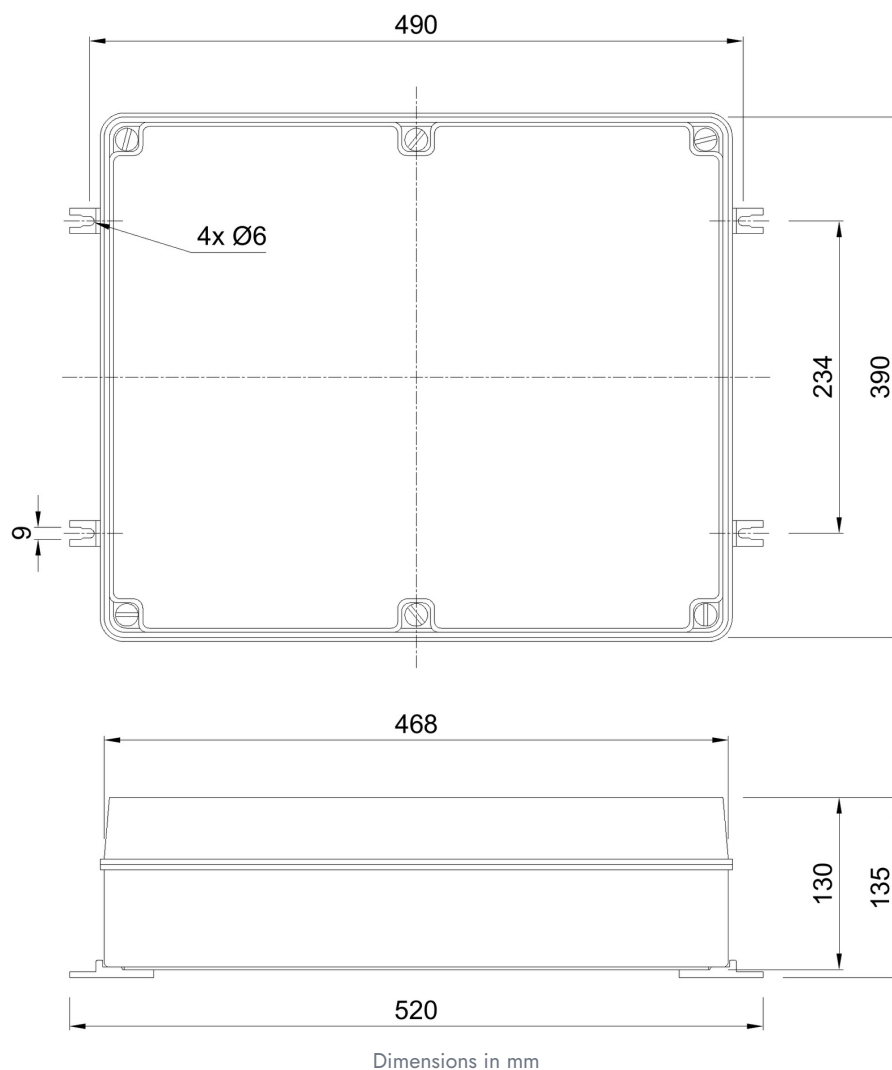
Parameter	Value
Working temperature	-10 °C ... +40 °C, humidity max 85 % condensate free
Storage temperature	-20 °C ... +50 °C
Protection rating	IP56, waterproof plastic box
Dimensions	468 x 390 x 130 mm
Mounting	wall, 4 x Ø 6 mm

5 Installation

5.1 Mounting

- Mount the display on a flat wall, at a height and angle where both lines are visible from the batching position and no lamp shines into the front panel.
- The four mounting brackets sit on the sides of the housing; the holes are Ø 6 mm and sit 490 mm apart horizontally and 234 mm apart vertically.
- The serial cable must not run together with power cables; give it its own path.
- Keep to the working temperature range even in summer.

5.2 Dimensions



6 Electrical connections

6.1 Basic information

- Disconnect the supply before working on the terminals.
- For RS422 use a twisted pair shielded cable; ground the shield at one end only.
- The cable must not be channelled together with power cables.
- RS232 is limited to 15 m, RS422 to 1 000 m.

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

6.2 Terminals of one board

Both boards have the same terminal strip:

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

For normal operation only terminals 7, 8, 9 and 10 are used

The same strip on board 1 and board 2, wired in parallel

Terminal strip · the same on board 1 and board 2

6.3 Wiring the two boards

- Supply: terminal 9 to plus, terminal 10 to minus — on both boards, in parallel.
- RS422: terminal 7 is **RX–**, terminal 8 is **RX+** — on both boards, in parallel.
- Only these four terminals are needed for normal operation; the RS232 and RS422 transmit lines stay free.

6.4 RS422 connection to the indicator

The far end depends on the indicator. On the display side it is always terminal 7 for **RX–** and terminal 8 for **RX+**:

Indicator	Connect terminal 7 to	Connect terminal 8 to
WR — connector COM 2	6, TXD –	4, TXD +
WD — connector J2	6, TXD –	4, TXD +
WG or WB — at the last W60000 on the line	12, minus	11, plus

Watch the far end. With WG or WB the cable does not go to the indicator itself but to the **last W60000** connected to it. Wiring it to the indicator will not work.

7 Commissioning

7.1 Messages at power on

After the self test each board shows its identification code and software version, then the 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

Display shows	Meaning
FORM then e.g. N-8-1	data format
VISUA then LORDO or NETTO	display mode — LORDO (gross) on board 1, NETTO (net) on board 2
DEC x	number of decimals

7.2 DIP switches and the P1 button

Each board carries two DIP switch banks and a **P1** button. Four settings are made with **DIP2**: one switch selects the setting, **P1** steps through its values.

DIP1



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
The manual gives no function for DIP1

DIP switch banks and the **P1** button · on each board

Same on both boards. Decimals, baud rate and timeout must be set to exactly the same value on board 1 and board 2. Only the net/gross setting differs.

7.3 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.

7.4 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. With a WD indicator set 9 600 bit/s at most.

7.5 Net or gross display

- Move switch 3 of **DIP2** to ON. The display shows **LORDO** for gross or **NETTO** for net.
- Press **P1** to change the setting.
- Move switch 3 of **DIP2** back to OFF to save.
- Set gross on board 1 and net on board 2.

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

8 Approvals and standards

Declarations of conformity dated 2022-07-06, for the model RIP2x8/DOS-MAN/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 of the affected board ready — each board shows both at power on (section 7.1) — and say which indicator series the display is connected to.

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