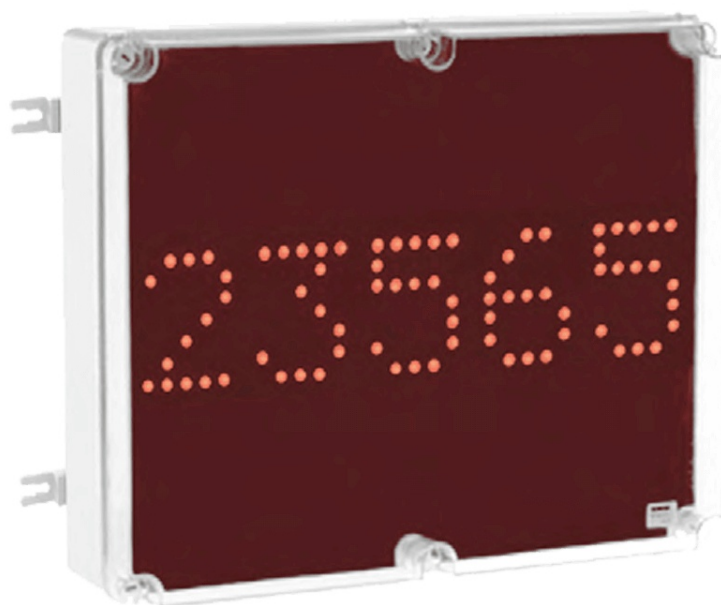


MANUAL

EDLD

FIVE DIGIT REMOTE DISPLAY

Installation and user manual



Document	Version	Date	Applies to
Installation and user manual	V00x	08/2026	EDLD (L-RIPLED5100) · LED08 board

This manual applies to the version with the **LED08** board, supplied for weight transmitters of the LCD2 and LCD3 series: serial line RS485 at 9 600 bit/s. Section 1 explains how to tell it 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 What the display shows	3
4 Technical data	4
5 Installation	4
5.1 Mounting	4
5.2 Dimensions	5
6 Electrical connections	5
6.1 Basic information	5
6.2 Board and terminals	6
6.3 RS485 connection to the transmitter	6
7 Commissioning	7
7.1 Messages at power on	7
7.2 DIP switches and the P1 button	7
7.3 Brightness	8
7.4 Decimals	8
7.5 Number of transmitters	8
7.6 Which weight is displayed	8
7.7 Net or gross display	8
8 Approvals and standards	8
9 Service	8

1 About this manual

This manual applies to the five digit remote display **EDLD**, type **L-RIPILED5100**, in the version with the **LED08** board — the one supplied for weight transmitters of the LCD2 and LCD3 series. The display repeats a weight value that it receives over the serial line; it does not weigh and it cannot be calibrated.

Which version you have. Open the housing and look at the board: this manual applies if it is marked **LED08** and the serial line is wired to terminals 7 and 8. At power on the display shows **LED08** as its identification code.

The manufacturer also lists the display in a general version with RS232 and RS422 and a selectable baud rate. That version is not covered here; its serial settings differ.

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

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 alphanumeric digits, 100 mm high, in red LED — readable up to 35 m.
- Brightness adjustable from 0 to 10 or automatic.
- Waterproof plastic housing, IP56, for wall mounting.
- Serial input RS485 at 9 600 bit/s, ASCII.
- Shows the weight of one transmitter — A, B, C or D — or the total of all of them.

3.2 What the display shows

The display repeats the weight value of up to four transmitters on one RS485 line. Which value appears is a setting, not a command from the transmitter:

Setting	The display shows
A, B, C or D	the weight of that one transmitter
SOMMA	the total weight of all connected transmitters
WIN	selectable in the same list as A to D and SOMMA

Independently of that, the display shows either gross or net weight — see section 7.6.

4 Technical data

Parameter	Value
Supply voltage	12 ... 24 V DC
Power consumption	20 W
Display	5 digits, alphanumeric, red LED, 100 mm high
Brightness	adjustable, 0 ... 10 or automatic
Reading distance	up to 35 m
Serial port	RS485
Protocol	ASCII
Baud rate	9 600 bit/s
Max cable length	1 000 m
Transmitters on one line	up to 4 · LCD2 or LCD3 series
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

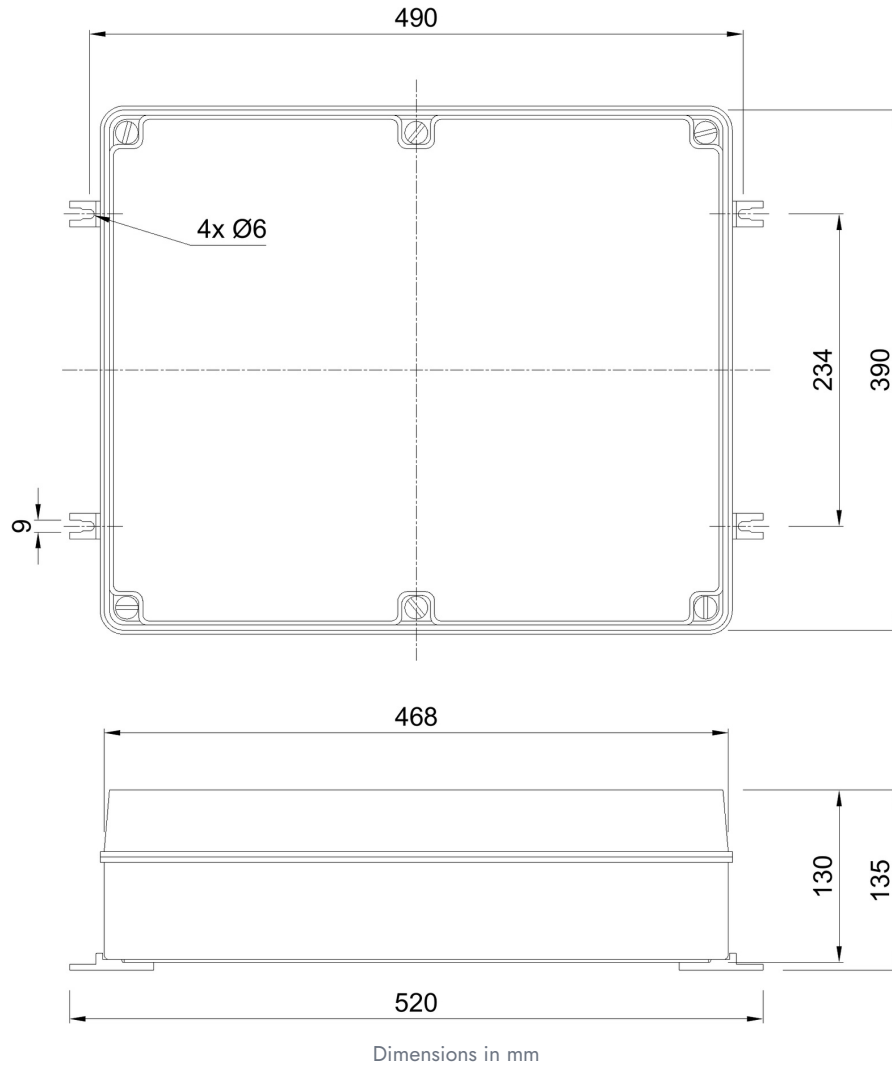
One open point. The manufacturer's manual of 2022 describes the digits as seven-segment. The current data sheet and the product photograph show a **dot matrix**. This manual follows the current data sheet; the point is with the supplier.

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; 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

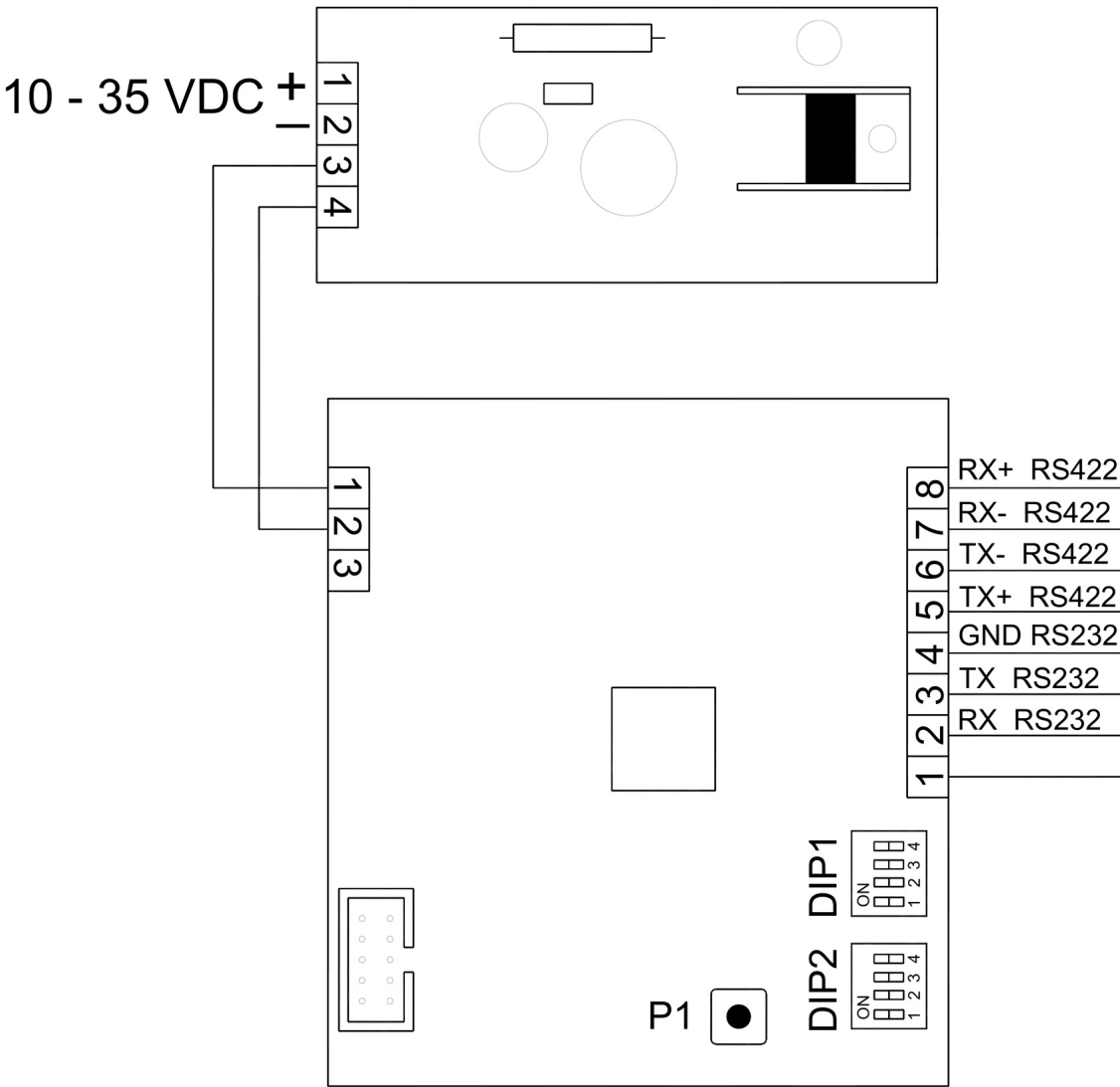
6.1 Basic information

- Disconnect the supply before working on the terminals.
- Use a shielded cable with one twisted pair; ground the shield at one end only.
- The cable must not be channelled together with power cables.
- The serial line may be up to 1 000 m long.

Own power supply module. The display is fed from a separate module: 10 to 35 V DC go into the module, which supplies the display board with 5 V DC. The module is included. For the product as supplied, 12 to 24 V DC applies.

6.2 Board and terminals

5 VDC Power supply (included in the supply)



The board · supply module above, display board below with the terminal strip

1	not used	5	RS422 TX +
2	RS232 RX	6	RS422 TX -
3	RS232 TX	7	RS422 · RS485 RX -
4	GND RS232 · cable shield	8	RS422 · RS485 RX +

For normal operation only terminals 7 and 8 are used
The supply comes from the separate module, not from this strip

Terminal strip of the display board

6.3 RS485 connection to the transmitter

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

Transmitter	Connect terminal 7 to	Connect terminal 8 to
LCD2 A, LCD2 B — also C and D	11, TXD -	10, TXD +
LCD3	13, TXD -	12, TXD +

7 Commissioning

7.1 Messages at power on

After the display test the identification code and the software version appear, then the current setting:

Display shows	Meaning
LED08	identification code — quote it when you ask for support
REV03	software version
MODE then LORDO or NETTO	display mode — LORDO is gross weight and the default, NETTO is net
RADIO	not used

7.2 DIP switches and the P1 button

Five settings are made with the two DIP switch banks and the **P1** button on the board: one switch selects the setting, **P1** steps through its values, and moving the switch back to OFF saves it.

DIP1



1 brightness

DIP2



- 1 number of decimals
- 2 net or gross display
- 3 number of transmitters
- 4 which weight is displayed



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 Brightness

- Move switch 1 of **DIP1** to ON.
- Press **P1** to step through the values 0 to 10 and **AUTO**.
- Move switch 1 of **DIP1** back to OFF to save.

7.4 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 Number of transmitters

- Move switch 3 of **DIP2** to ON. The display shows the number of transmitters.
- Press **P1** to select 1 to 4.
- Move switch 3 of **DIP2** back to OFF to save.

7.6 Which weight is displayed

- Move switch 4 of **DIP2** to ON.
- Press **P1** to select **WIN**, **A**, **B**, **C**, **D** or **SOMMA** — the last one is the total weight.
- Move switch 4 of **DIP2** back to OFF to save.

7.7 Net or gross display

- Move switch 2 of **DIP2** to ON.
- Press **P1** to select **NETTO** for net or **LORDO** for gross weight.
- Move switch 2 of **DIP2** back to OFF to save.

8 Approvals and standards

The manufacturer's manual states conformity with the following standards:

Standards
EN 61000-6-2
EN 61000-6-3
EN 61010-1

The display carries the CE and UKCA marks. It 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) — and say which transmitter series the display is connected to.

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