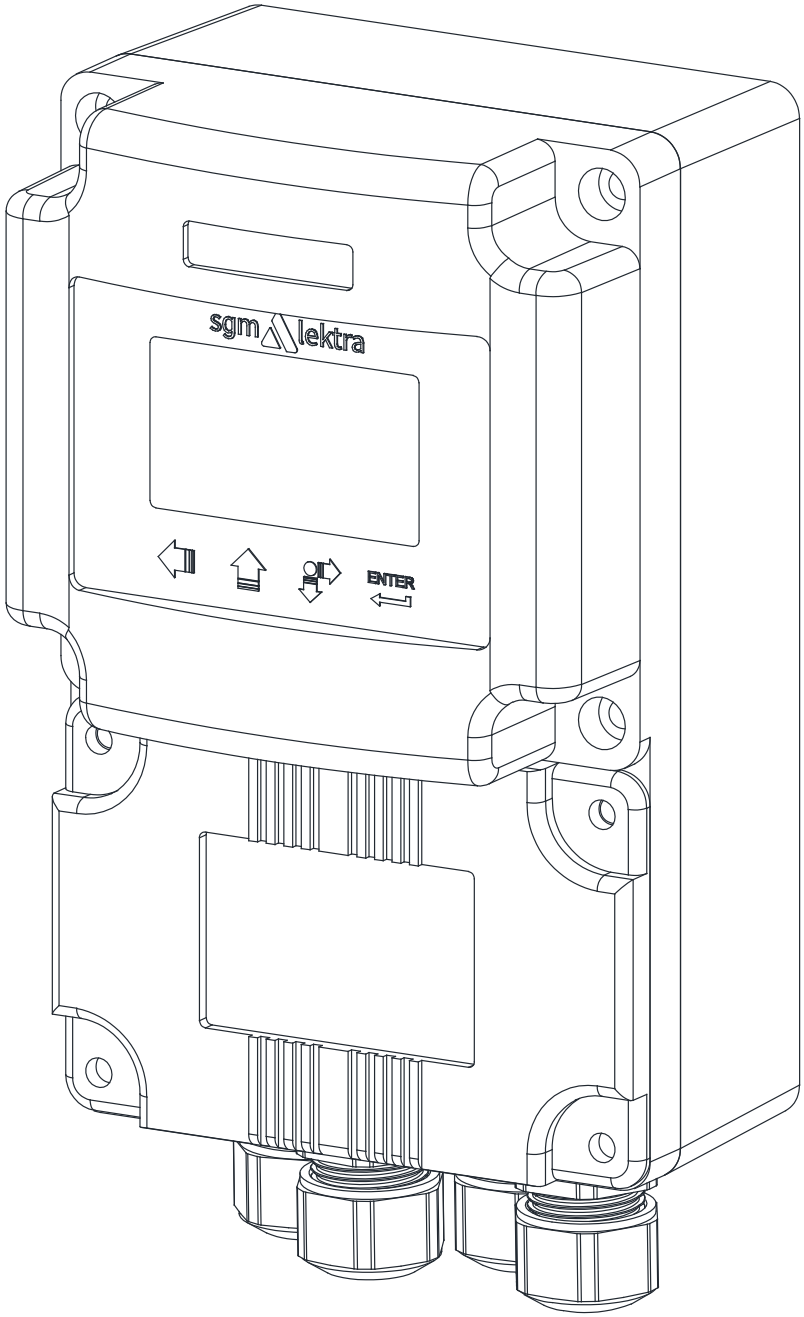
VLW602

Display and configuration unit



technical documentation EN Rev. Of 29/04/2024

sgm lektra

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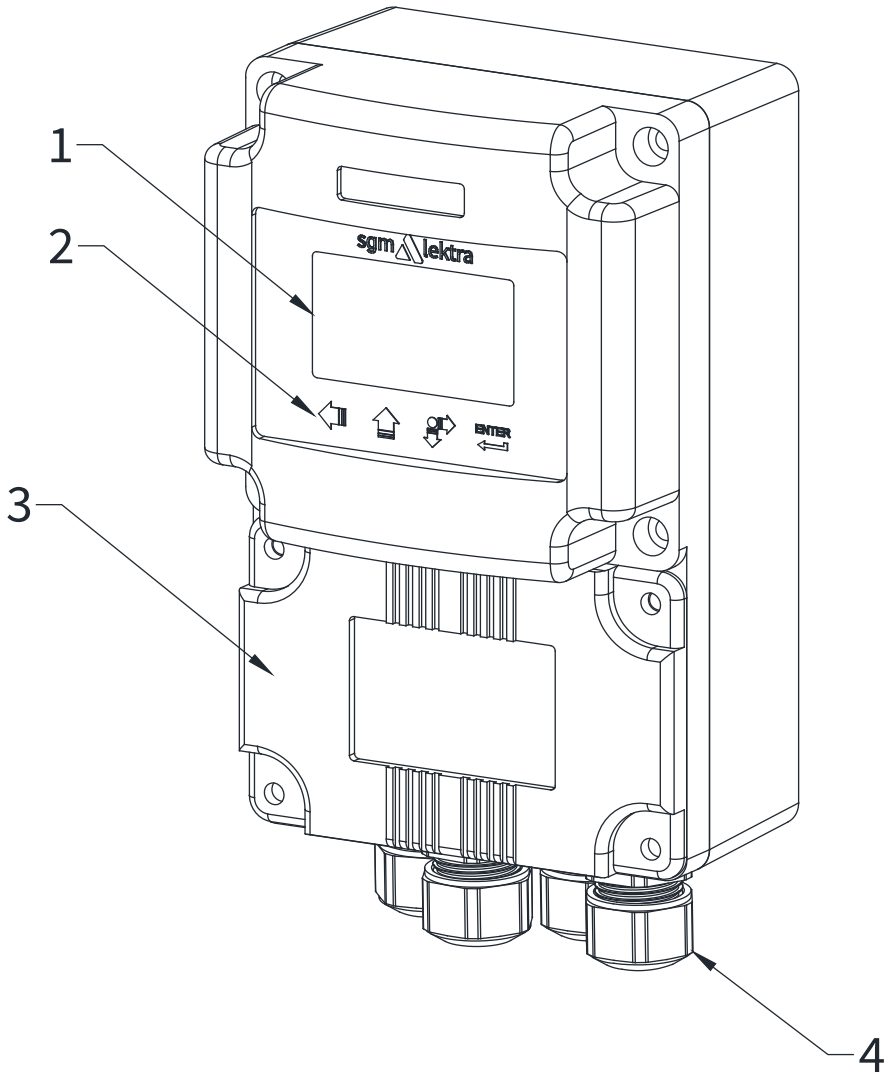
1-WARRANTY

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specified in our sale conditions document.
SGM LEKTRA can choose to repair or replace the Product.
If the Product is repaired it will maintain the original term of guarantee, whereas if the Product is replaced it will have 12 (twelve) months of guarantee.
The warranty will be null if the Client modifies, repair or uses the Products for other purposes than the normal conditions foreseen by instructions or Contract.
In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods

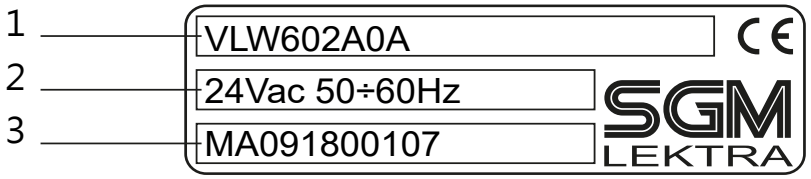
2-PRODUCT



1. DISPLAY
2. CONFIGURATION KEYS
3. REMOVABLE CLAMPING PANEL
4. FOUR PG9 CABLE GLANDS

2.1 - IDENTIFICATION

Each meter has an adhesive identification plate on which are the meter main data.
The following picture describes the information and data on the identification plate.



1. Product code
2. Power supply
3. Serial number

3-FEATURES

Housing material
Epoxy coated aluminum

Mechanical installation
Wall mountig

Protection degree
IP66

Keyboard
4 push buttons

Display
LCD

Electrical connection
Internal connector

Working temperature
-25° ÷ +70°C

Power supply
12÷30 Vdc
85÷265 Vdc

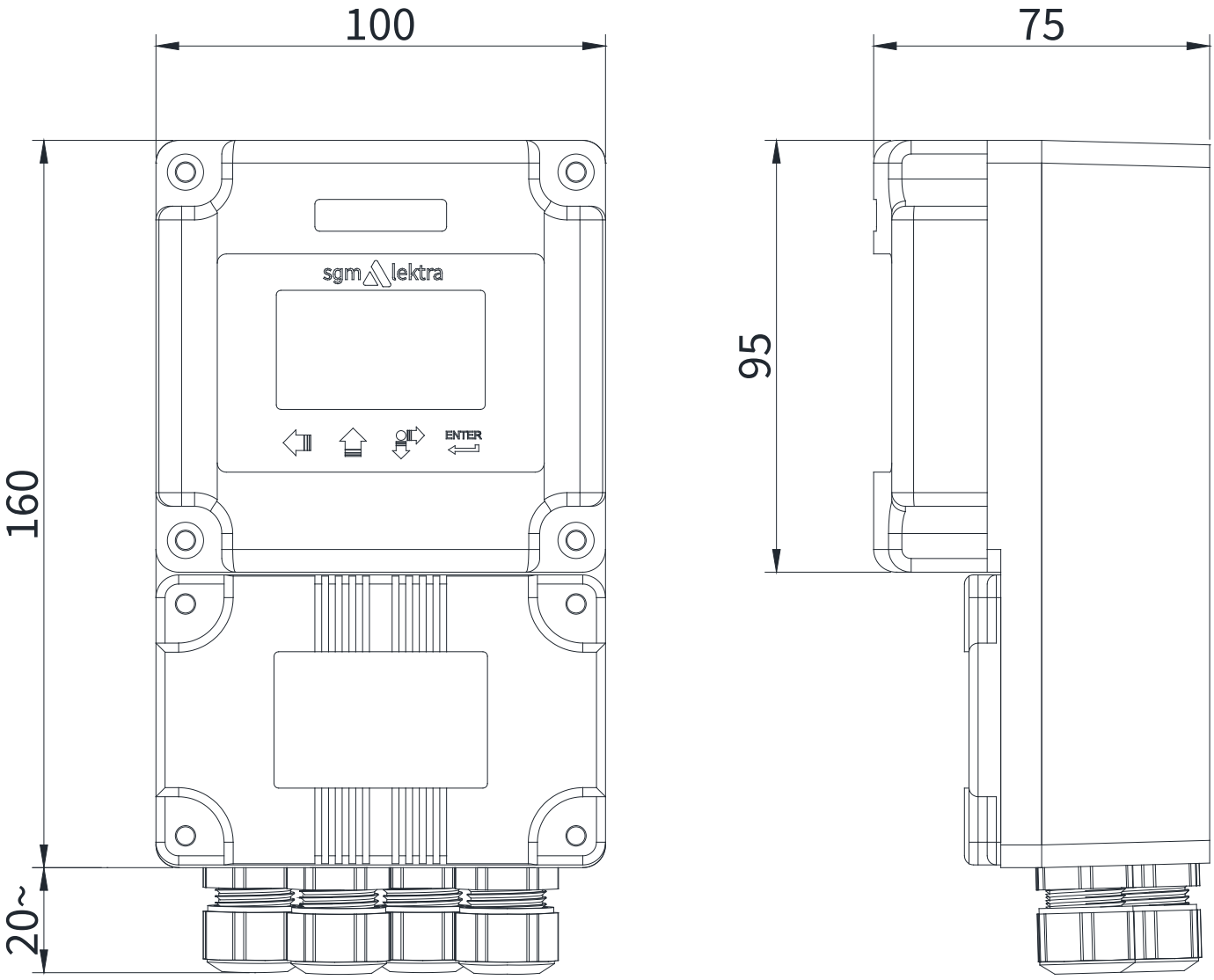
Power consumption
Max. 5W

Power supply for PTU5_, METER (4 wires), KTU5, RPL75 (4 wires), RPL81, FLOWMETER, FLOW51
24Vdc

Data comunication with PTU5_, METER (4 wires), KTU5, RPL75 (4 wires), RPL81, FLOWMETER, FLOW51
Via MODBUS RTU

4-DIMENSIONS

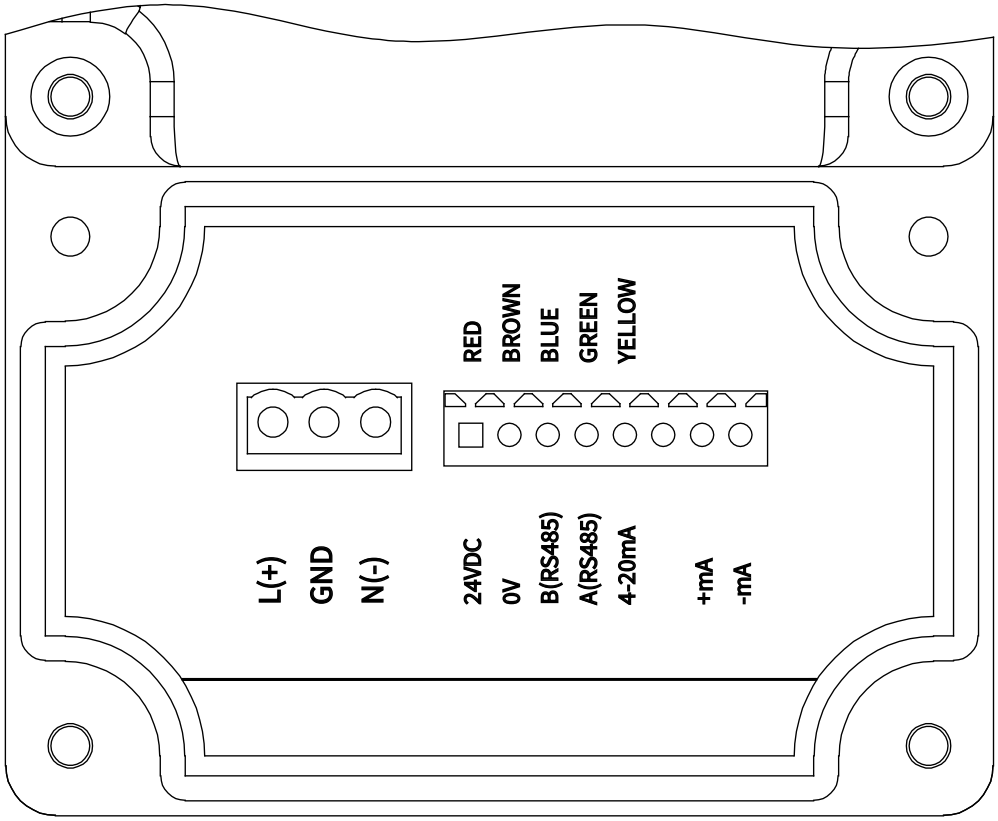
4.1 - MECHANICAL DIMENSIONS



5-ELECTRICAL CONNECTIONS

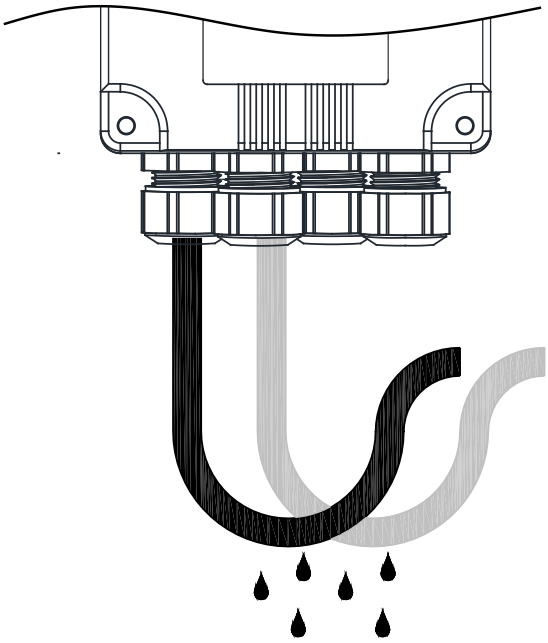
5.1 - CONNECTIONS

1) Separate the engine control cables or power cables from the VLW602 connection cables.
2) Remove the caps from the cable glands and open the cover by unscrewing the screws.
3) Lead the cables into the transmitter through the cable glands.
4) Close the cap and tighten the cable glands.



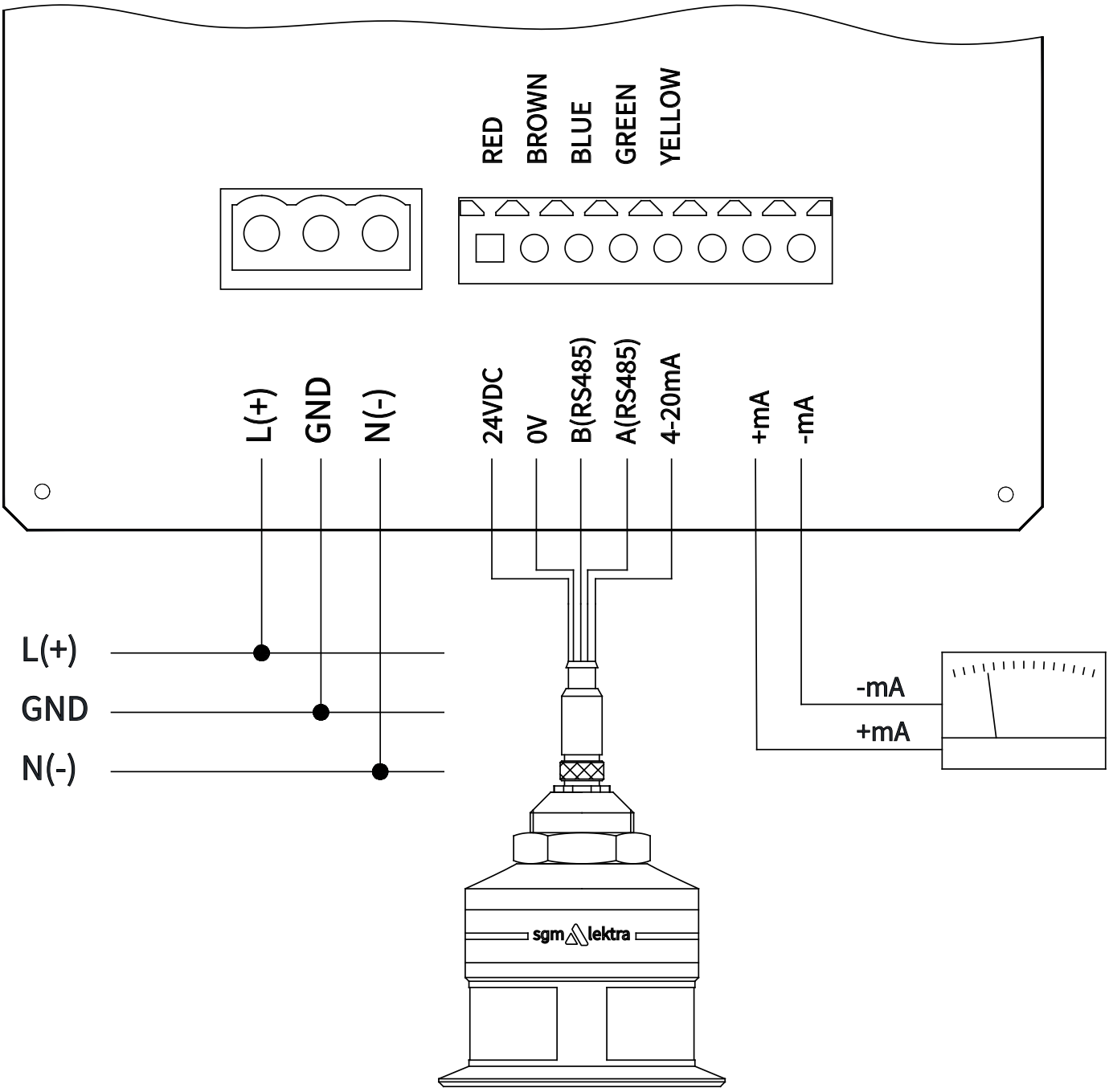
5.2 - RECOMMENDATIONS FOR EXTERNAL MOUNTING

To avoid the humidity infiltration inside the housing is recommended:
- For electrical connections, tighten the PG9 cable gland..
- fully tighten the cap.
- position the cable so that it forms a downward curve at the PG9 output; in this way the condensation and/or rain water will tend to drop from the curve bottom.
- The two central cable glands are arranged for the PTU sensor connection cables.

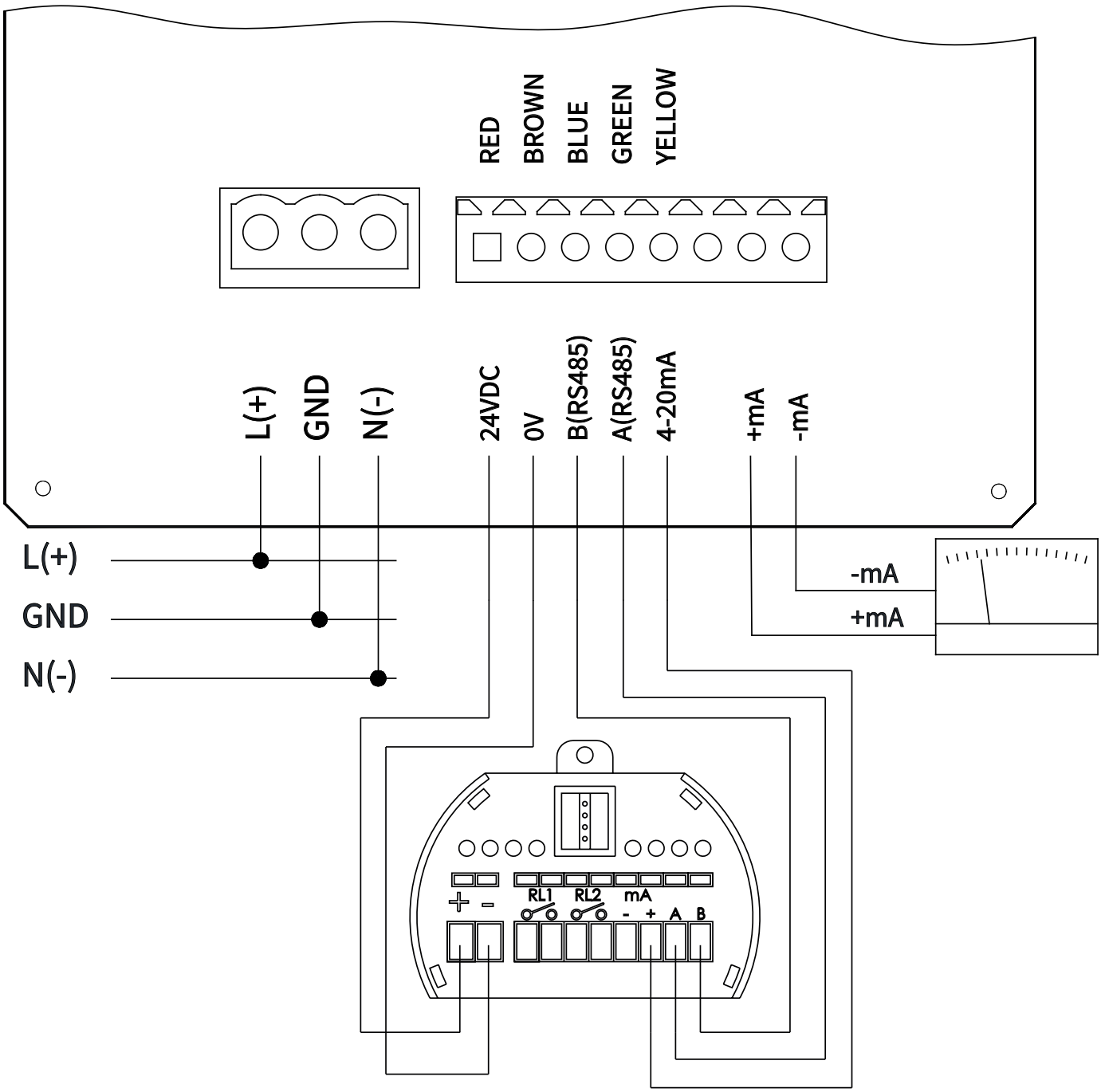


5.3 - Connection

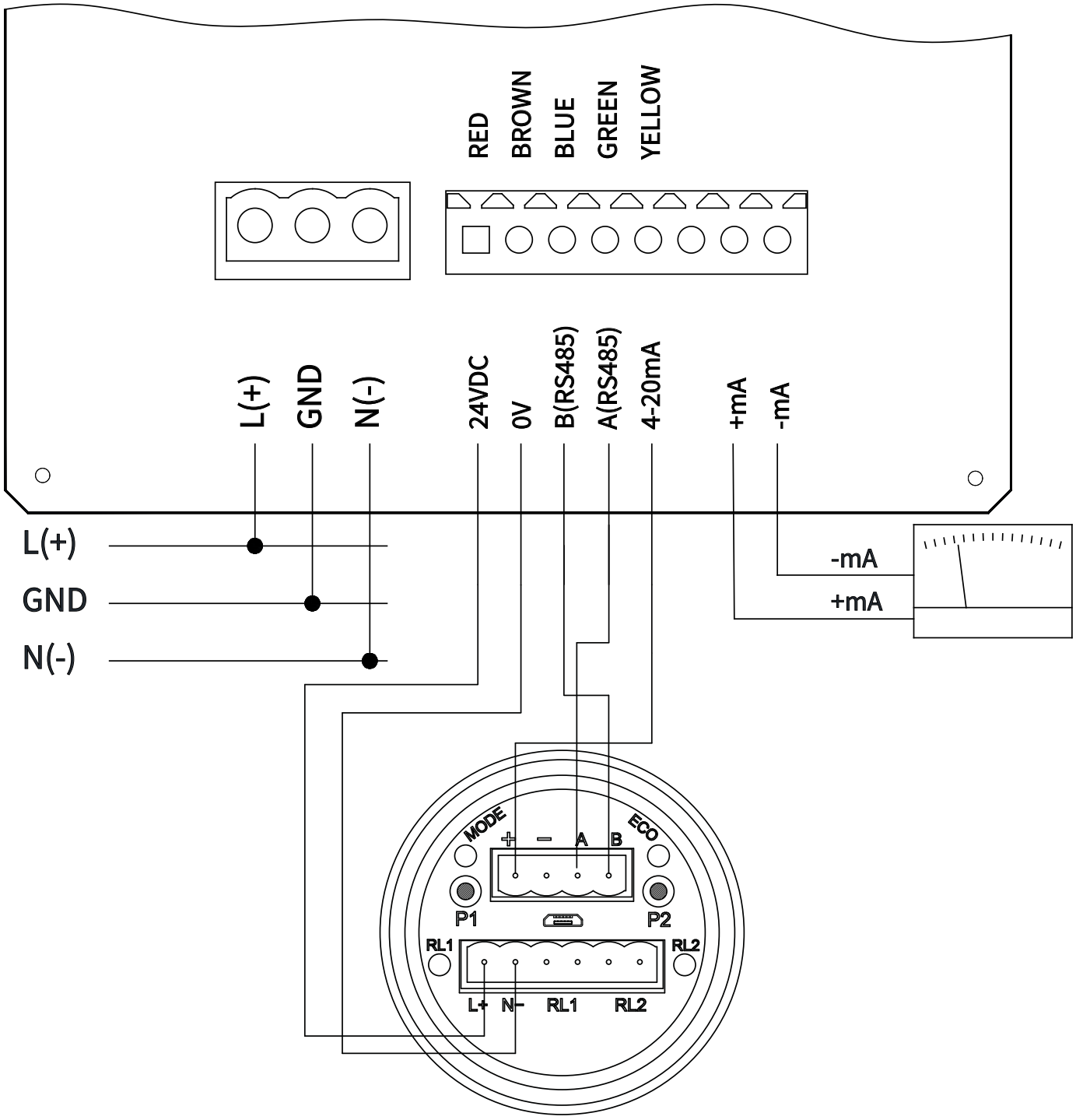
5.3.1 PTU5_/FLOW51 sensor connection



5.3.2 Sensor connection METER (4 wires) and RPL75 (4 wires), FLOWMETER



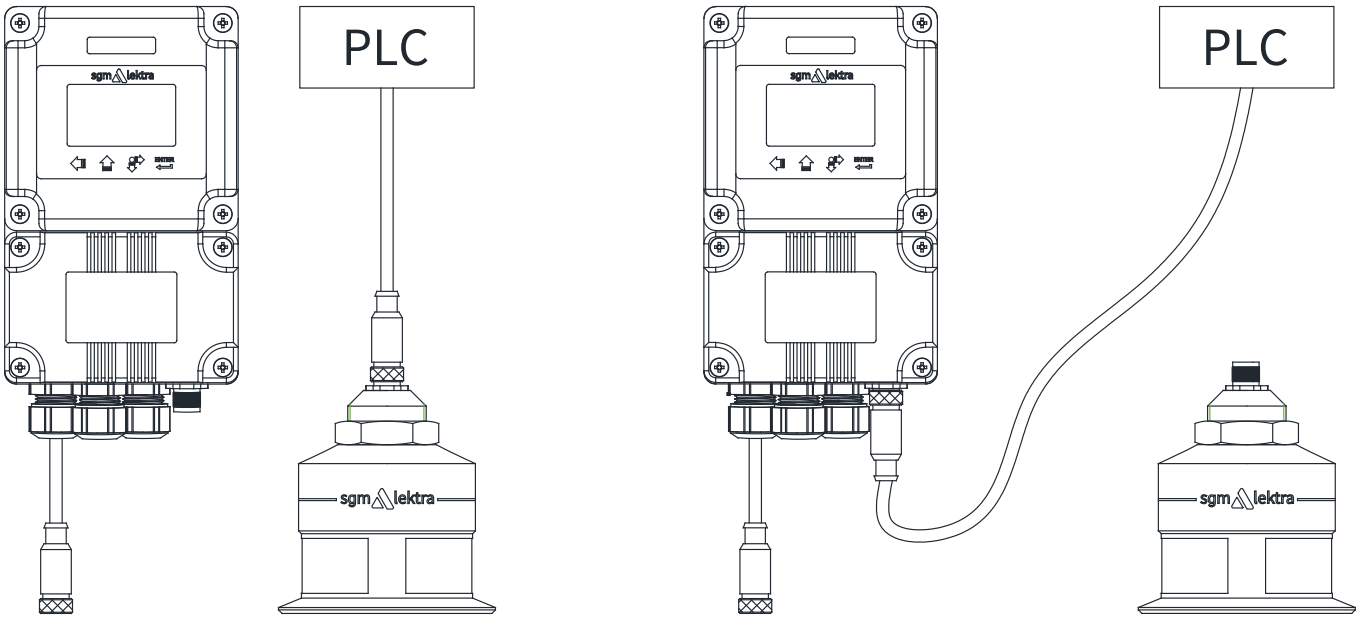
5.3.3 Sensor connection KTU5 and RPL81



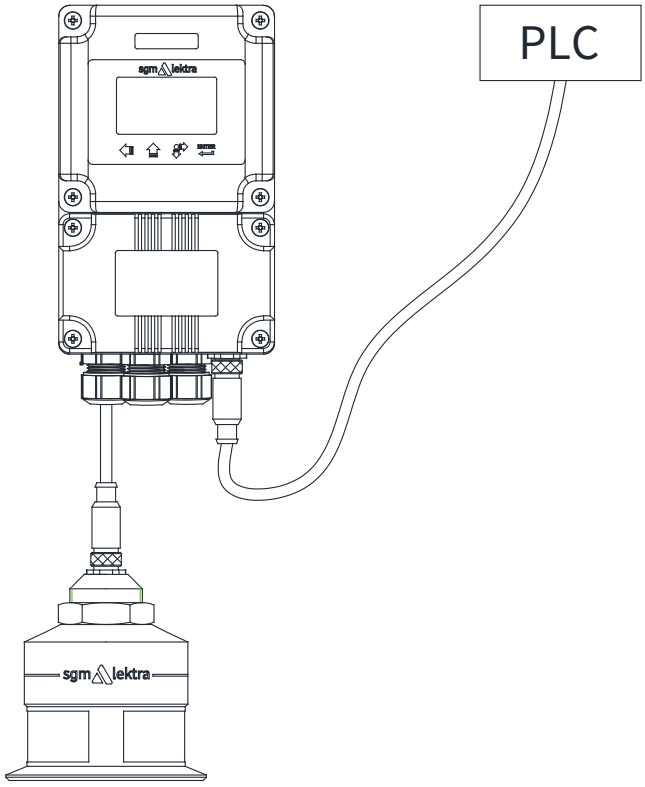
5.4 - "D" version connection for PTU5_/FLOW51

The 'D' version is designed to be quickly connected to a PTU5_/FLOW51 sensor installed in the field for the programming of measurement parameters.
To connect proceed as follows:

1) Disconnect the female connector from the PTU5_/FLOW51 sensor and connect it to the male connector of the VLW602



2) Connect the female connector of the VLW602 to the male connector of the PTU5_/FLOW51 sensor.



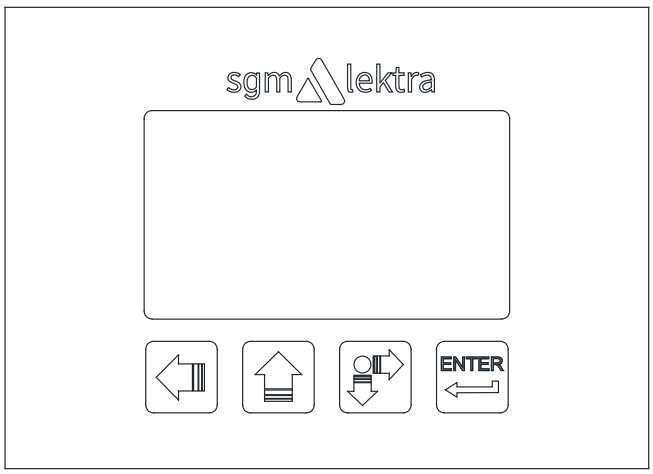
6-CONFIGURATION AND CALIBRATION

Via the VLW602 the operator can: access any transmitter function, change configuration parameter settings and other functions.

6.1 - VLW602 FEATURES

The VLW602 program module has 4 buttons which allow to perform all operational, control and programming instrument functions.
In the configuration menus, is possible:

1. Submenus and parameters access; press to select and press to access.
2. Parameter options choice: Press to select the option and press to store the option.
   Press to exit without storing.
3. Configure the parameter values; in some parameters the configuration is done by setting a value (eg., in the SET DISTANCE 4mA parameter is possible to change the corresponding distance value, in mm):
   press to select the digit to be modified (the digit is highlighted in inverse),
   press to change the high lighted digits number, press to save the set value and exit automatically.
   Press to exit without storing.



LEFT ARROW button:
- **Exit configuration**
- **Back to previous menu**
- **Echo map (from RUN mode)**

UP ARROW button:
- **Parameter values modification**
- **Parameter scroll**

SCROLL button:
- **Cursor movement (to the right)**
- **Parameter scroll**

ENTER button:
- **Configuration access**
- **Options confirmation**
- **Parameters values confirmation**

Displayed at the top alert that the PTU sensor is not communicating with VLW602.

Displayed at the top alerts that there is a generic error; press SCROLL to show the message that indicates the present error type.
The PTU5_ returns automatically to RUN mode.

7-PROGRAMMING

REFER TO THE CONNECTED LEVEL SENSOR MANUAL

9-FACTORY TEST AND QUALITY CERTIFICATE

CE

In conformity to the company and check procedures I certify that the equipment:

(Display and configuration unit)

is conform to the technical requirements on Technical Data and it is made in conformity to the procedure

Quality Control Manager: ..... Production and check date: .....

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