

kg

TLC

Analog Weight Transmitter

Small and affordable

The TLC, with its dimensions of 45 x 26 x 11 mm in the board-only version, is the most compact and cost-effective of our analog weight transmitters.

If space is limited and/or you need to reduce costs (e.g., for mass production or smart weighing), it is the ideal solution for creating applications with multiple independent weighing systems connected to a single PLC via analog output, but which do not require special technical performance.

Versatile

The TLC adapts to any type of application and is available on request in 2 additional versions:

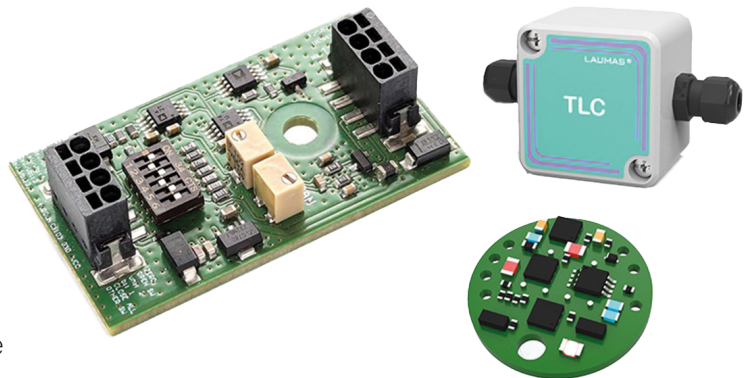
- IP67 ABS enclosure version for protection against water and dust;
- circular board version, even smaller and more affordable, with a diameter of only 20mm.

Complete

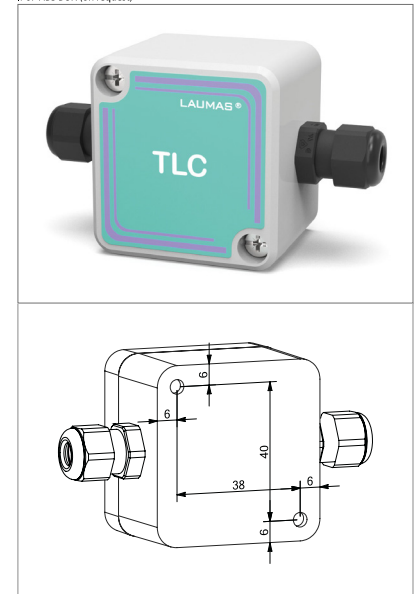
In its simplicity, the TLC is equipped with all the essential features:

- analog output in current (4-20 mA) or voltage (0-10 VDC);
- connection of up to 4 load cells in parallel;
- compatible with the analog/digital boards of any PLC;
- rated output selection with mini switches, in a range between 1 mV/V and 3 mV/V;
- 12-turn potentiometer for zero and full-scale adjustment.

It is also the only one of our transmitter that features spring terminal blocks for faster and more secure wiring in case of transport after calibration and/or exposure to vibrations.



IP67 ABS BOX (on request)



DESCRIPTION

- Analog weight transmitter.
- Dimensions: 45x26x11 mm; 1 fixing hole Ø4 mm.
- IP67 ABS box (on request).

INPUTS/OUTPUTS AND COMMUNICATION

- Current or voltage analog output.
- 1 load cell dedicated input.

MAIN FUNCTIONS

- Connections to:
 - PLC via analog output.
 - up to 4 load cells in parallel by junction box.
- Compatible with analog/digital boards normally installed on PLC.
- Calibration with sample weights or load cell simulator.
- Ideal for use with tension/compression load cells.



■ TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC ±10%; 2 W
Number of load cells • Load cells supply	up to 4 (350 Ω) - 4/6 wires • 5 VDC/60 mA
Linearity	0.01% full scale
Thermal drift	0.005% full scale/°C
Measure range	1-3 mV/V
Analog output	current: 4÷20 mA cc; max 300 Ω voltage: 0÷10 VDC; min 10 k Ω
Humidity (condensate free)	85%
Storage temperature	-30 °C +80 °C
Working temperature	-20 °C +60 °C

CALIBRATION AND CONFIGURATION

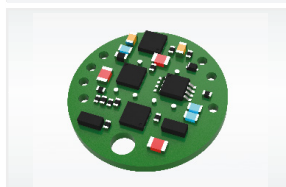
Zero adjustment	12-turn potentiometer trimmer, 10% of full scale
Full scale adjustment	12-turn potentiometer trimmer, 10% of full scale
Choice of sensitivity	3 dip-switches
Operation mode: - monodirectional (tension or compression) - bidirectional (tension and compression)	2 dip-switches

■ OPTIONS ON REQUEST

DESCRIPTION



IP67 ABS box
2x M12x1.5 cable glands
Dimensions: 94x53x40 mm (cable glands included)
2 fixing holes Ø 4 mm



Circular board version
Dimensions: Ø 20 mm, height 8 mm
1 fixing hole Ø 3 mm
1 load cell - solder connections
Choice of measurement range and operation by replacing resistors
Current or voltage analog output