

# DIGITAL WEIGHT TRANSMITTER

For strain gauge load cells signals



## WTD3

The **WTD3** is a strain gauge load cells conditioner with digital weight transmission, by RS485 serial interface.

An easy installation and immediate use make this product suitable for specific industrial application requirements.

It is available with a case for DIN rail mounting.



### GENERAL FEATURES

- Up to 4 load cells connected (with 350  $\Omega$  resistance)
- RS485 serial interface with ModBus RTU protocol
- Case suitable for DIN rail mounting
- Compliant with the EMC Directive 2014/30/EU and was tested according to EN 61000-4 and EN 61000-6 harmonized standards for industrial environment

Galvanic insulation through DC/DC converter between 24 Vdc power supply, the load cells and the RS485 bus for a better reduction of possible interferences coming from the PLC interface. The device is factory calibrated and calibration procedure made by the user is not required.

### TECHNICAL CHARACTERISTICS

Device's power supply:	24 Vdc $\pm$ 10%, 3 Wmax
Load cells' power supply:	5 V dc
Temperature range:	from 0 $^{\circ}$ C to +45 $^{\circ}$ C
Max current:	150 mA (4 load cells with R=350 $\Omega$ )
Protocol:	ModBus RTU
Input signal:	from -4mV/V to +4 mV/V
RS485 output:	19 bit + sign
Linearity:	0.01%
Baud rate:	9600, 19200, 57600, 115200
Conversions:	10 samples per second
Digital filter:	8, 16, 32, 64 averaged values
Dimensions:	23 x 99 x 111 mm (W x H x D)

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## DIN RAIL MOUNTING WITH GALVANIC ISOLATION

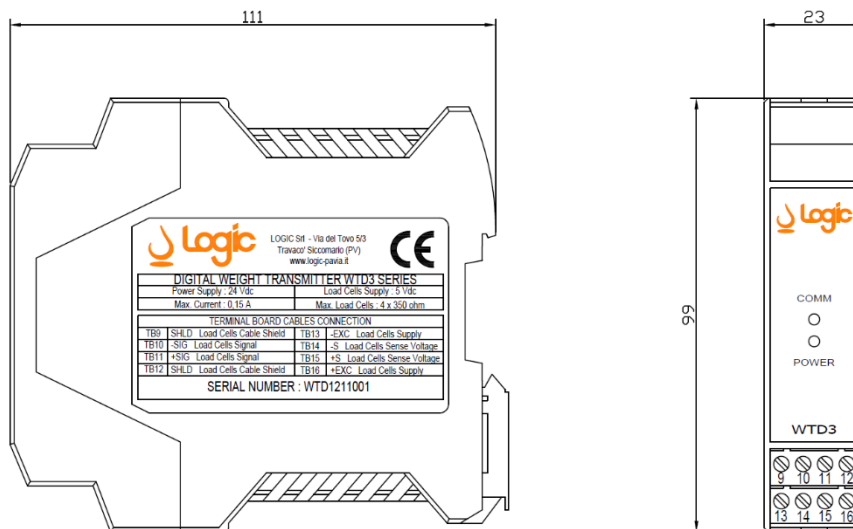
Factory calibration range 0÷4 mV/V

Dip switch set-up: digital filter configuration, modul address and baud rate

RS485 serial interface

Low profile DIN rail mounting (h 7.5 mm)

Diagnostics LED for power supply and communication verification



## DIN RAIL MOUNTING AND SERIAL BUS CONNECTION

The system with terminal blocks for the RS485 bus and 24 Vdc power supply interconnections. Up to 31 connected devices on the same communication bus.

