



# ML

Level transmitter  
for reed probe



## Technical data

Power supply:	<b>24VAC/DC switching</b> Others on request
Power consumption:	2VA / 1,8W max
Input signal:	Potentiometric
Reed probe voltage:	3 Vdc
Analogue output:	0/4÷20 mA (Mod. ML-I) 0÷10 Vdc (Mod. ML-V)
Output impedance:	Max 750Ω (mA) or Min 1KΩ (V)
Adjustment:	2 multiturn trimmer for Zero & Span
Visual signalling:	Green LED → Power supply
Protection:	IP20
Storage temperature:	from -30 to +80°C
Working temperature:	from -20 to +60°C
Relative humidity:	from 0 to 85%, no condensate
Installation:	35 mm DIN rail
Dimensions:	90(H) x 35(L) x 60(P) mm
Electrical connection:	Removable terminal board

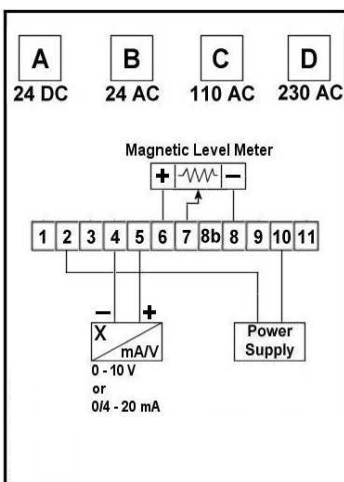
**CE** mark according to *Directive 89/336/CEE*, complies with the following harmonised regulations: *EN50081-1, EN 50082-2, EN55022, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11* and *Low Voltage Directive 73/23/CEE* and subsequent modifications.

## General

ML transmitter convert the level measure from a GSH reed probe and a magnetic float in a 4-20mA or 0-10Vdc analog output signal.

The output signal of the instruments is proportional to the distance between minimum and maximum point set during calibration.

## Electrical connections



It is recommended to use a connection cable of at least 0,5mm<sup>2</sup> section and a maximum length of 250mt. Connection cables must have separate run from power cables.

If the reed probe is installed upside-down, that is with the output connector near the minimum level, the connection polarity (PIN 6 and 8) must be inverted to obtain an output coherent with the level measured.

## Warranty

The warranty is valid for 12 months from purchase, and expires if instrument is improperly used or not correctly installed on system.

## Calibration

The instrument has 2 multiturn trimmer for zero and span adjustment. You have to connect an high accuracy amperometer/voltmeter at the output pin, and follow one of the following procedures:

### 4÷20mA calibration

- 1) Move the float to the **MINIMUM** level and rotate the **ZERO** trimmer until you read **0.0mA** on the amperometer
- 2) Move the float to the **MAXIMUM** level and rotate the **SPAN** trimmer until you read **16.0mA** on the amperometer
- 3) Move again the float to the **MINIMUM** level and rotate clockwise the **ZERO** trimmer until you read **4.0mA** on the amperometer

### 0÷20mA calibration

- 1) Move the float to the **MINIMUM** level and rotate the **ZERO** trimmer until you read **0.0mA** on the amperometer
- 2) Move the float to the **MAXIMUM** level and rotate the **SPAN** trimmer until you read **20.0mA** on the amperometer

### 0÷10V calibration

- 1) Move the float to the **MINIMUM** level and rotate the **ZERO** trimmer until you read **0.0Vdc** on the voltmeter
- 2) Move the float to the **MAXIMUM** level and rotate the **SPAN** trimmer until you read **10.0Vdc** on the voltmeter



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