



ML

Level transmitter for reed probe



Technical data

Power supply:	24VAC/DC switching 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

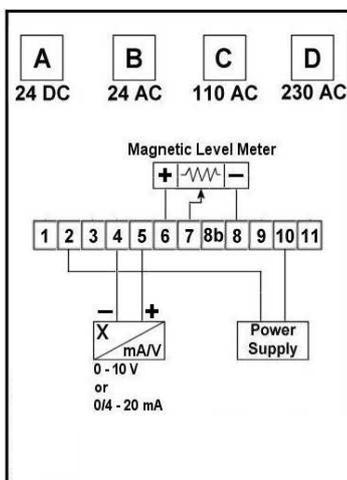
CE mark according to *Directive 89/336/CEE*, complies with the following harmonised regulations: *EN50081-1*, *EN 50082-2*, *EN55022*, *EN61000-4-2*, *EN61000-4-3*, *EN61000-4-4*, *EN61000-4-5*, *EN61000-4-6*, *EN61000-4-11* and *Low Voltage Directive 73/23/CEE* and subsequent modifications.

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 0,5mm² 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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