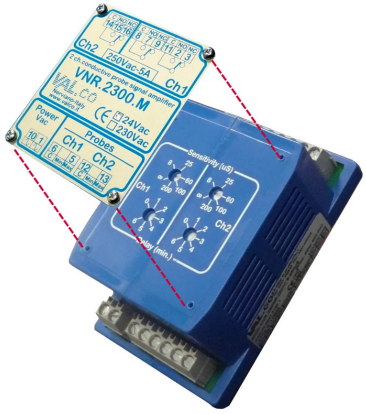
GENERAL CHARACTERISTICS

This control unit with double measuring channels was designed as **low cost interface for conductive level probes** and is used to control liquids that have a minimum electrical conductivity of 8 μS.
The system measures the conductivity of the liquid to be controlled and works with low potential and with alternating currents, in order to avoid the incrustation of the electrodes and / or perforation of the tank normally caused by the use of direct currents, which cause a galvanic action on the materials. The contact of the electrode with the liquid determines the actuation of a relay inside the control unit. The presence of two measurement channels simultaneously allows to realize systems of control, metering, and safety.

- Adjustable sensitivity and delay
- Microprocessor technology
- 2 measuring channels
- DIN rail mounting

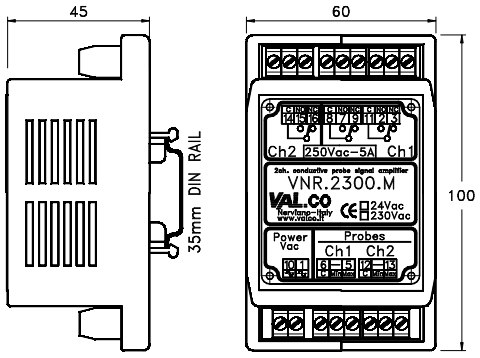


TECHNICAL DATA

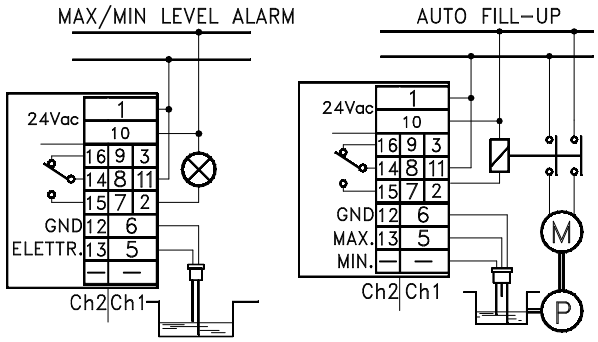
Power supply	24 Vac 50/60 Hz	230 Vac On request	
Power consumption	10 VA		
Input signal	From conductive probes		
Power supply to probe	15 Vac		
N. 2 channels output relay	Ch1	N. 2 SPDT	250Vac - 5A
	Ch2	N. 1 SPDT	
Sensitivity	8 ÷ 250 μS	Factory setting 60μS	
Operation delay	0 ÷ 6 min.	Factory setting 1 min.	
Adjustments	Trimmers under front plate		
Operating temperature	-20° ÷ +50° C		
Housing	ABS	IP40	60 x 100 x 45 mm.
Mounting	DIN rail		
Electrical connection	17 poles terminal board		

TERMINAL				FUNCTION		
10		1		Power supply 24 Vac 50/60 Hz		
6	CH1	12	CH2	Tank ground / ground electrode		
–		–		Minimum level electrode		
5		13		Maximum level electrode		
2				NO	Ch1	N. 2 SPDT Simultaneous action
3				NC		
11				COM		
7				NO	Ch1	
9				NC		
8				COM		
15				NO	Ch2	N. 1 SPDT Ch2
16				NC		
14				COM		

DIMENSIONS mm.



TYPICAL WIRING



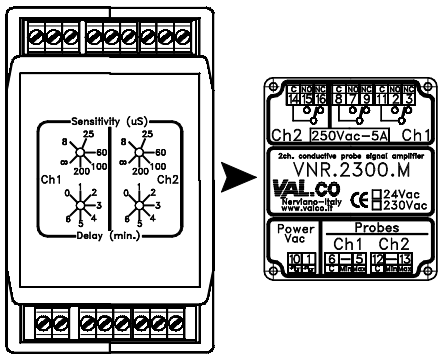
CONTROL AND ADJUSTMENT

Control:

- Disconnect the electrodes leads from the terminal board (Ch1 - terminals 5 and 6) (Ch2 - terminals 12 and 13).
- Short circuit terminals 5 and 6 of the terminal board, in these conditions, the Ch1relays must switch on.
- Short circuit terminals 12 and 13 of the terminal board, in these conditions, the Ch2 relays must switch on.

Sensitivity and delay adjustment:

- The unit is supplied with a factory setting of 60 μS.
- Submerge the electrodes in the liquid under control, turn the trimmer (Sensitivity) under the front plate to obtain the switching of the relays.
- The operation delay can be adjusted with the trimmer (Delay) also located under the front plate.



NOMENCLATURE

VNR.2300M	2CH	8 – 250 μS	24 VCA		
•					Type
	•			Tab.1	Number of channels
		•		Tab.1	Sensitivity
			•	Tab.1	Power supply

We reserve the right to change the data without notice

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