

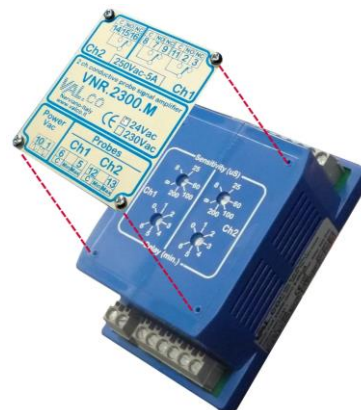


GENERAL CHARACTERISTICS

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.

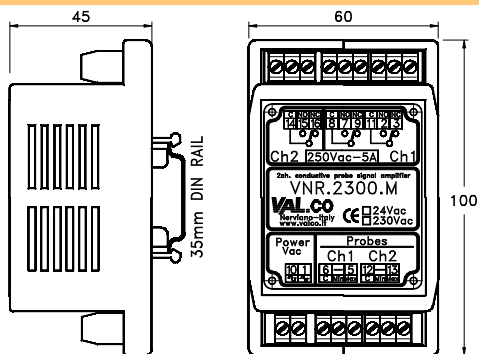
- Adjustable sensitivity and delay
- Microprocessor technology
- 2 measuring channels
- DIN rail mounting



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 Ch2 N. 1 SPDT	250Vac - 5A
Sensitivity	8 ÷ 250 μS	Factory setting 60 μS
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	

DIMENSIONS mm.



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 Ch1 relays 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
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TERMINAL

FUNCTION

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

TYPICAL WIRING

