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 μ S.

The system is based on measurement of 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 materials.

The contact of the electrode with the liquid under control 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.
- 2 measuring channels

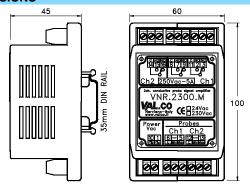
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- Microprocessor technology
- DIN rail mounting

TECHNICAL DATA					Tab.1			
Power supply	24 Va	c 50/60 l	Hz	On request 230 Vac				
Power consumption	10 VA							
Input signal	From	conducti	ive prob	oes				
Power supply to probes	15 Va	С						
N. 2 channels Output relay	2CH	Ch1 Ch2		SPDT	250Vac - 5A			
Sensitivity	8 ÷ 25	0 μS	Facto	ry setting	յ 60μS			
Operation delay	0 ÷ 6 r	min.	Factory setting 1 min.					
Adjustments	Trimmers under front plate							
Operating temperature	-20° ÷	+50° C						
Housing	ABS	IP40	6	30 x 100 x	c 45 mm.			
Mounting	DIN ra	il						
Electrical connection	17 poles terminal board							

TERMINAL **FUNCTION** Power supply 24 Vac 50/60 Hz 12 Tank ground / ground electrode 댅 Minimum level electrode 13 Maximum level electrode 2 NO 3 NC Ch1 N. 2 SPDT COM 11 Simultaneous NO action NC Ch1 COM N. 1 SPDT Ch2 16 NC Ch2 COM

DIMENSIONS



CONTROL AND ADJUSTMENT

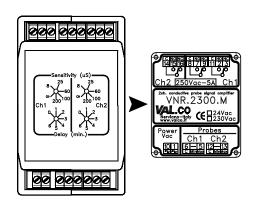
Control:

- 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.

TYPICAL WIRING



NOMENCLATURE

VNR.2300M	2CH	8 – 250 μS	24 VAC	
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	•			Tab.1
		•		Tab.1
			•	Tab.1

We reserve the right to change the data without notice

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