# ELECTRA VNR 23

## Signal amplifier

### **GENERAL CHACTERISTICS**

The VNR2300 control unit was designed as **low cost interface for conductive level probes**. These electronic units are used to control liquids that have a minimum electrical conductivity of 10  $\mu$ 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 and it is possible to drive any alarm system and / or actuator.

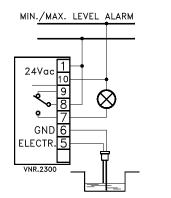
By using multiple probes and multiple control units, appropriately connected, a system of dosage and safety can be realized.

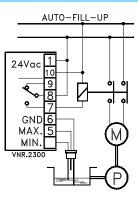
Tab.1

#### **TECHNICAL DATA**

Power supply	24 Vac 50/60 Hz 230 Vac on request				
Power consumption	5 VA				
Input signal	From conductive probes				
Power supply to probes	22 Vac				
Output relay	2 x SPDT 250Vac 5A				
Sensitivity range	10 - 250 μS Factory setting 60μS				
Sensitivity adjustment	Side trimmer				
Operating temperature	-20° ÷ +50° C				
Housing	ABS				
Degree of protection	IP 40				
Mounting	DIN rail				
Dimensions (mm)	60 x 100 x 45				
Electrical connection	11 poles terminal board				

### **TYPICAL WIRING**





#### 10 Power supply 24 Vac 50/60 Hz 1 6 Tank ground MIN. level probe MAX. level probe 5 2 N.O. 1<sup>st</sup> Simultaneous 3 N.C. relay action 11 COM. 7 N.O. 2<sup>nd</sup> 9 N.C. relay COM. 8

#### **CONTROL AND ADJUSTMENT**

#### Control.

54

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

#### Sensitivity adjustment.

The unit is supplied with a factory setting of 60  $\mu$ S.

Submerge the electrodes in the liquid under control, turn the side trimmer to obtain the switching of the relays.

NOMENCLATURE					
VNR.2300	10 – 250 μS	24 VAC			
•				Туре	
	•		Tab.1	Sensitivity	
		•	Tab.1	Power supply	
e reserve the right to change th	he data without notice				E

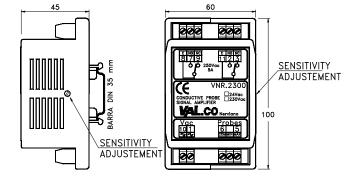


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- Adjustable sensitivity from 10µS.
- Double relay output.
- DIN rail mounting.

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FUNCTION