

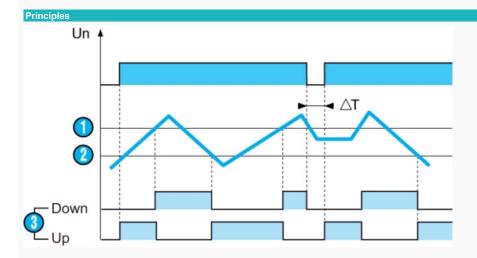
DIN Rail Mount 22,5 mm ENR Part number 84870200



- Regulation of 1 or 2 levels (min / max)
- Monitoring filling (UP) or emptying (DOWN) selected by a switch on the front panel
- Probes supplied with AC current
- Time delay preventing wave effect adjustable from 0.1 to 5s (ENRM)
- \bullet Sensitivity adjustable on front panel from 250 Ω to 1 M Ω (ENRM)
- Sensitivity adjustable on front panel from 5 K Ω to 100 k Ω (ENR)

Part numbers				
Type	Characteristics		Voltages	
84 870 200 ENR	Monitoring filling (UP) Monitoring emptying (DOWN)		24 →240 V AC/DC	

Operating range $24 \rightarrow 240 \text{ V AC/DC}$ Operating range $20.4 \rightarrow 264 \text{ V AC/DC}$ Maximum power consumption AC 5 VA, DC 1,5 W Adjustable sensitivity $5 \text{ K}\Omega \rightarrow 100 \text{ K}\Omega$ Measurement accuracy (at maximum sensitivity) $\pm 30 \%$ Electrode voltage (max) 12 V Electrode current (maximum) 1 mA Maximum cable capacity 10 nF Response time high level 300 ms Response time low level 500 ms Output relay (according to AC1 resistive load) $1 \text{ changeover relay 8 A AC max}$. Isolation of contacts and electrodes from power supply 2.5 kV AC Operating temperature range (°C) $-20 \rightarrow +50 \text{ °C}$ Storage temperature range (°C) $-40 \rightarrow +70 \text{ °C}$ Weight (g) 91	Specifications	
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Maximum cable capacity Response time high level Response time low level Output relay (according to AC1 resistive load) Isolation of contacts and electrodes from power supply Operating temperature range (°C) Storage temperature range (°C) 10 nF 300 ms 1 changeover relay 8 A AC max. 2,5 kV AC -20 →+50 °C -40 →+70 °C	Electrode voltage (max)	12 V
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Response time low level Output relay (according to AC1 resistive load) Isolation of contacts and electrodes from power supply Operating temperature range (°C) Storage temperature range (°C) 500 ms 1 changeover relay 8 A AC max. 2,5 kV AC -20 →+50 °C -40 →+70 °C	Maximum cable capacity	10 nF
Output relay (according to AC1 resistive load) 1 changeover relay 8 A AC max. Isolation of contacts and electrodes from power supply 2,5 kV AC Operating temperature range (°C) -20 →+50 °C Storage temperature range (°C) -40 →+70 °C	Response time high level	300 ms
Isolation of contacts and electrodes from power supply 2,5 kV AC Operating temperature range (°C) Storage temperature range (°C) 20 \rightarrow +50 °C -40 \rightarrow +70 °C	Response time low level	500 ms
Operating temperature range (°C) $-20 \rightarrow +50$ °C Storage temperature range (°C) $-40 \rightarrow +70$ °C	Output relay (according to AC1 resistive load)	1 changeover relay 8 A AC max.
Storage temperature range (°C) -40 →+70 °C	Isolation of contacts and electrodes from power supply	2,5 kV AC
	Operating temperature range (°C)	-20 →+50 °C
Weight (g) 91	Storage temperature range (°C)	-40 →+70 °C
	Weight (g)	91



Operating principle

Monitoring maximum and/or minimum levels of conductive liquids (tap water, sea water, waste water, chemical solutions, coffee, etc).

The principle is based on measuring the apparent resistance of the liquid between two submerged probes. When this value is lower than the preset threshold displayed on the unit's front panel, the output relay changes state. To prevent any occurrences of electrolysis, an AC current is passed through the probes. Areas of application include the agri-food, chemical and other industries.

Adjusting two levels : Minimum/Maximum

The output relay changes state when the level of liquid reaches the maximum electrode, with the minimum electrode submerged. It returns to its initial state when the minimum probe is no longer in contact with the liquid.

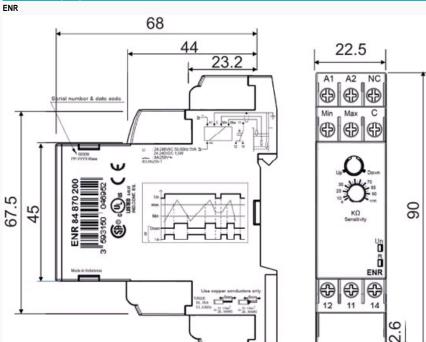
Note

If the power break T lasts for 1 second or more, the relay reenergises instantly when in "UP" mode and is de-energised when in "DOWN" mode.

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N°	Legend
•	Maximum level
②	Minimum level
3	Output relay : Down or Up

Dimensions (mm)



5.5

ENR A1 C Min Max R A2 12 14

A1-A2 : power supply

Connections

CA ENR



A1-A2 : power supply