



## ENR filling or emptying function ENR Part number 84870204



- Regulation of two levels :
  - minimum
  - maximum
- Monitoring filling (UP) or emptying (DOWN), selected by a switch on the front panel.
- Probes supplied with AC current.
- Sensitivity adjustable on front panel from 5 k $\Omega$  to 100 k $\Omega$ .

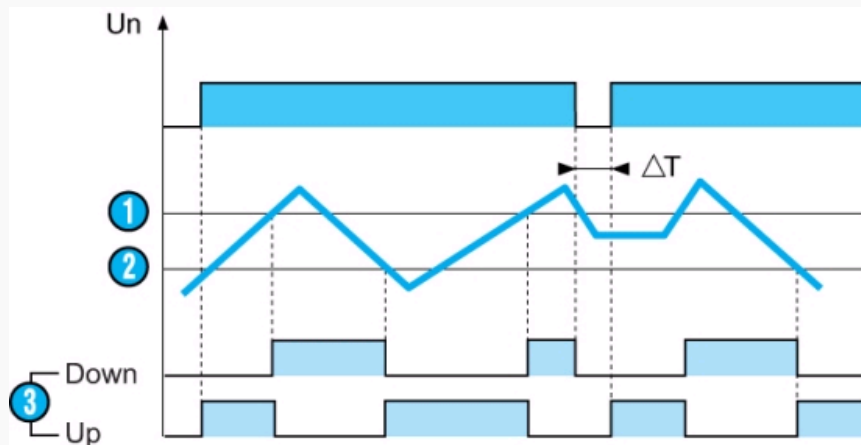
### Part numbers

| Type          | Characteristics                                | Voltages |
|---------------|--|----------|
| 84870 204 ENR | Monitoring filling UP Monitoring emptying DOWN | 230 V AC |

### Specifications

|   |   |
|---|---|
| Operating range   | 0.85 $\rightarrow$ 1.10 x Un              |
| Maximum power consumption   | 3 VA                                      |
| Adjustable sensitivity  | 5 k $\Omega$ $\rightarrow$ 100 k $\Omega$ |
| Measurement accuracy (at maximum sensitivity)                     | $\pm$ 30 %                                |
| Electrode voltage (max)   | 24 V AC (50/60 Hz)                        |
| Electrode current (maximum)                                       | 1 mA (50/60 Hz)                           |
| 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 AgNi changeover relay 8 A AC max.       |
| Galvanic isolation via transformer (4 kV, 8 mm creepage distance) | Class II                                  |
| Isolation of contacts and electrodes from power supply            | 2.5 kV AC                                 |
| Operating temperature range (°C)                                  | -20 $\rightarrow$ +50 °C                  |
| Storage temperature range (°C)                                    | -40 $\rightarrow$ +70 °C                  |
| Weight (g)  | 150                                       |

### Principles



#### 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

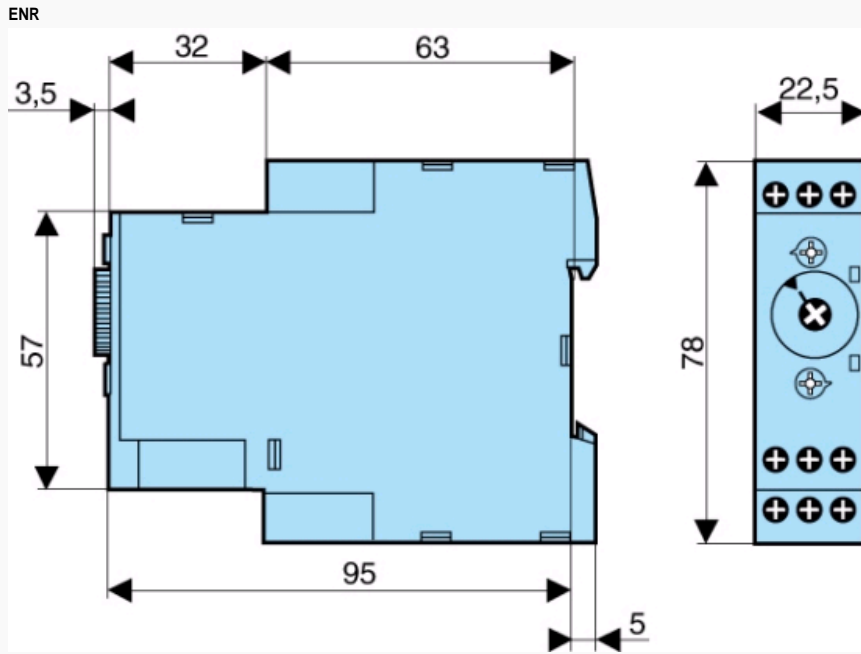
The output relay changes state when the level of liquid reaches the maximum electrode, with the minimum electrode submerged. It returns to its initial state when the minimum probe is no longer in contact with the liquid.

**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.

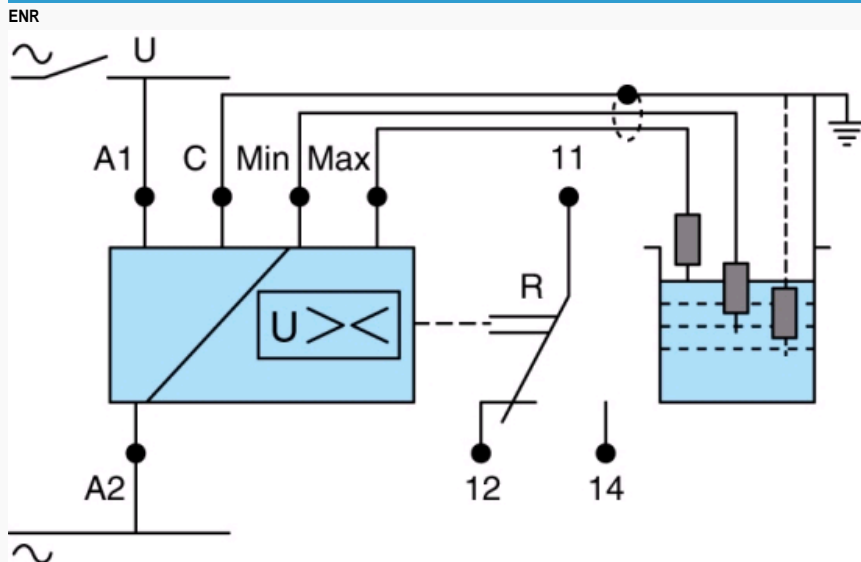
| N° | Legend        |
|----|---------------|
| 1  | Maximum level |

|   |                           |
|---|---------------------------|
| ② | Minimum level             |
| ④ | Output relay : Down or Up |

Dimensions (mm)



Connections



A1-A2 : power supply

| N° | Legend                       |
|----|------------------------------|
|    | *** TRADUCTION MANQUANTE *** |

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