Measuring and Monitoring Relays



ENW-E12 230 V AC / 24 V AC - 2 changeover contacts

- connection of up to three submersible electrodes
- selectable response sensibility
- LED indication

Part Numbers		
230 V AC		
24 V AC		

Level Monitor

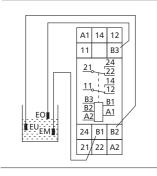
Housing Dimensions



Wiring - two electrodes

	A1	14	12	1
	11	14	B3′	
EO	<u>21</u> <u>11</u> <u>B3</u> <u>B2</u> <u>A2</u>		24 22 14 12 B1 A1	
EM	24	B1	B2	[
	21	22	A2	

Wiring - 3 electrodes



Accessory Submersible Electroce 110 324 Technical data see next page.

Description

The fluid level indicator is used for level or leakage monitoring of all conductive, inflammable media. The response level is selected by a proportional potentiometer.

Functional Description

In the monitoring mode the instrument operates with an electrode (EO) and the earth terminal (EM), e.g. to signal minimum or maximum levels to protect submerged pumps from overflowing or running dry. If the surface of the fluid is subject to disturbance a second electrode is recommended (EU).

As a two-level controller the instrument controls pumps or valves with the electrodes EO, EU and the earth terminal EM to fill or empty containers automatically. A container wall, being conductive to the liquid media, may also be used as earth terminal.

As soon as the upper electrode EO is wetted by the rising level of the conductive medium excitation current is running from the EO electrode through the media to the earth terminal and the monitor is switched on. By means of an auxiliary switch the lower electrode EU is connected in parallel so that the monitor is only deenergized when the fluid level is releasing not only the upper but also the lower electrode. The operating status of the output relay is indicated by LED.

Technical Data

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_	Input	nominal voltage UN power consumption operating voltage range release voltage frequency range duty cycle electrode voltage response sensivity release time tr recovery time tw control contact minimum turn-on time repeat accuracy voltage sensivity temperature sensivity operating temperature range	230 V AC, 24 V AC 2 VA 0.9 1.1 UN ≥0.15 UN 50 60 Hz 100 % 12 V AC 5 kΩ 50 kΩ selectable about 20 ms ≥250 ms ≥20 ms ≥20 ms ≥20 ms ≤±0.01 %/K -20 °C +55 °C -20 °C +70 °C
-	Output	output contact contact material switching voltage max. continuous current max. current over both contacts making/breaking capacity contact fuse mechanical endurance electrical endurance permissible switching frequency isolation per VDE 0110 rated voltage overvoltage category pollution degree test voltage (coil/contact) EMC test	2 changeover contacts AgNi 250 V 6 A max. 8 A 230 V~ 6 A AC1, 230 V~ 3 A AC3, 230 V- 0,12 A, 60 V- 0.6 A, 24 V- 3 A 12 V- 4 A DC1 6 A 3x10 ⁷ switching cycles 2x10 ⁵ switching cycles 2x10 ⁵ switching cycles 600 switching cycles 600 switching cycles 250 V AC/DC III 2 2000 V, 50 Hz 1 min emission per EN 50 081 T1 interference immunity per EN 50 082 T2
	Housing	type of protection (EN 60529) relative humidity range per IEC 60721-3-3 environmental class wire cross section mounting position colour weight housing dimensions WxHxL modular	housing IP50, terminal blocks IP20 3k3 2.5 mm ² any green 300 g 22.5 x 75 x 100 mm without spacing

