

Level Monitor Type NS43V

Switchgear-mount Housing

NS43V



Part numbers:

NS43V

V223313

ER6



T224386

The NS level monitor is an electronic device for monitoring levels of conductive liquids.

The monitoring of the levels is effected vis electrodes, which are dipped or set free according to liquid level.

All conductive liquids can be monitored, preferably, however, water, also of different degree of hardness.

To adapt the relay to the conductivity of the liquid and to the capacitance of (long) cables, the switching limit can be adjusted app. 5 kΩ ... 250 kΩ. Thus it also is possible to tell between the liquid and foam over the liquid.

The NS unit protects aggregates and plants against dry running, overflow, leakage damages and unnecessary loss of liquids.

It controls and monitors levels of liquids in waste-water, pools, fish farms and wherever a certain level should be maintained or dosed.

Depending on the application and the set program, it controls the level between 2 or 3 electrodes by means of opening or closing dose or drain of a container.

The top and the lowest electrode protect from overflow or running dry.

An electrolytic corrosion of the electrodes as well as detonating gas production is excluded due to a AC current measuring path.

The universal supply voltage AC/DC 24-240 V allows to connect the relay to any common mains. The isolation between electronics (= electrodes) and supply voltage avoids malfunctions caused by potential spreading, also at DC-supplys.

- Monitoring of up to 4 levels
- 4 relays with change-over contacts (co)
- Sensitivity adjustable 5...250 kΩ
- Switching delay of relays adjustable 0...10 s
- Switching-delay of alarms (on/off) adjustable 0...10 s
- Basic programs (selectable with DIP-switches) for various applications
- Universal supply voltage AC/DC 24-240 V
- Terminals pluggable
- Housing for DIN-rail or wall-mount, mounting height 55 mm, 70 mm wide

Accessory: [Installation frame ER6 for panel mount](#)

Technical Data

Supply voltage Us

AC/DC 24-240V, <3W, <6VA
AC 20-264 V, DC 20,4-297 V,

Electrode connection
max. voltage/current
Sensitivity
max. cable-length/capacity

Level electrodes E1, E2, E3, E4, reference E0
<3Veff / <100 μA
adjustable 5 kΩ...250 kΩ ± 25%
5 kΩ/approx. 500m/100 nF, 250
kΩ/approx. 50m/10nF

Hysteresis
Switching delay

approx. 15% + 5 kΩ
adjustable 0,1...10 s

Relay output

Type 2 see "general technical informations"
4 x 1 changeover-contact

Test conditions
Rated ambient temperature

see "general technical informations"
-20...+55°C

Housing / Installation Frame
Dimensions h x b x d
Attachment
Protection housing / terminals
Weight

Design V6 / Front mounting kit type ER6, 6 TE
90 x 105 x 58 [mm], mounting height 55 mm
On 35 mm DIN-rail or screws M4
IP 30 / IP 20 (terminals pluggable)
approx. 250 g