

# Level Monitors Type NS

## General

The NS level monitor is an electronic device for monitoring liquid levels. They can be used as limit monitor or minimal-maximal control.

The monitoring of liquid levels is effected via electrodes.

## Application:

The NS units protect aggregates and plants against dry running, overflow, leakage damages and unnecessary lost of liquids. Characteristical applications are swimming pools, groundwater endangered buildings, oilfilled under-water-pumps as well as wherever a certain level should be maintained resp. dosed.

## Function

The level capture is effected through resistance measurement via an AC voltage measuring path, operating completely DC voltage-free. Hereby, the resistance between two (resp. three) electrodes is measured.

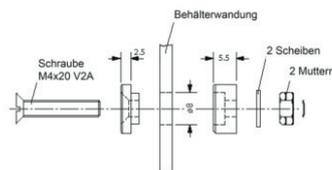
When the level increases, the electrodes are bridged and an integrated relay switches.

The level monitor operates as conductivity measuring device and guarantees a perfect level capture at a resistance of up to 250 k $\Omega$ , measured between the electrodes. ZIEHL level monitors are also available with adjustable time delay in order to avoid a too high relay switching frequency in case of a moving water surface. As electrodes any conductors, that jut into the tank down to the required level, can be used. At metal tanks the wall of the tank can be used as basic electrode.

## Niveauelectrodes

### Electrode NE1

Part number: **V223430**



Insulated screw-in electrodes for mounting in walls of tanks. The electrodes are made of stainless steel (V2A), the material of the insulation is Teflon.

### Electrode NE2

Part number: **V223429**



The electrode NE2 with its 1/2" thread can directly be screwed into the wall of a tank. The two electrodes (stainless steel V4A) are flush cast in a plastic housing (Polypropylen, PP) with cast resin. The electrode can be used in a temperature-range -5...+60 °C and is pressure-resistant up to 6 bar. The ingrained cable with 2 strands, each 0,25 mm<sup>2</sup>, is 2000 mm long,  $\varnothing$  4 mm.

For one level only one NE2 is sufficient. For use with a level-monitor for more levels, normally one NE2 per level is required.

