

Data Sheet

NB10 | Well Probe

Application

Measuring probes for hydrostatic measurement of fluid fill-levels. Some examples of typical applications are water or fluid fill-level measurements in

- Wells
- Drill holes
- Wastewater systems and
- Containers

Most Important Features

- High measuring accuracy
- Low hysteresis
- Corrosion-resistant materials
- Integrated measurement converter
- Measured values stable over time

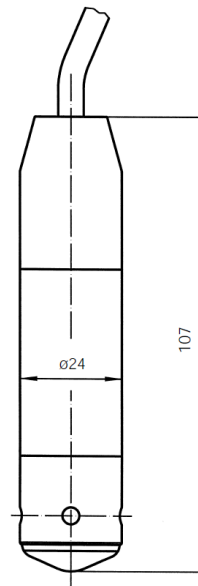


Design and Principle of Operation

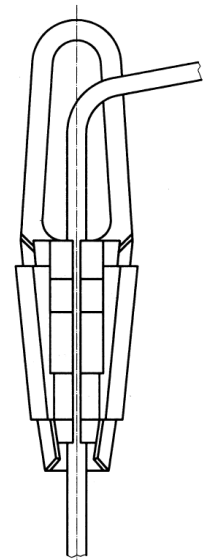
This measuring probe is designed around a highly sensitive pressure sensor with a silicon membrane-measuring element.

A DMS resistance bridge is attached to the rear of this membrane using a thin-film method. The well probe is equipped with an indirect hydraulic pressure sensor in order to guarantee the system-inherent dead space latitude. The pressure sensor is isolated by an elastic membrane from the medium to be measured. The volume between the membrane and the pressure sensor is filled completely with a transfer fluid. When pressure is applied this silicon membrane deforms in the elastic region, altering the resistance of the resistance bridge in a response linear to the measuring pressure. These changes in resistance are converted by electronics built into the device into standardized electrical signals.

Dimensioned drawings



Well Probe



Cable Holder MZ81

