

What is a level probe

A level probe is a specific type of level sensor used to measure the level or vertical height of a liquid in a water reservoir, tank or vessel. Level probes are available in many different forms but the most popular and most simple to use – a submersible level probe - is based on a pressure transmitter.



A pressure transmitter will measure the weight force of any media, e.g. groundwater, above it. This weight force can be imagined as a water column “standing” on top of the level probe. The water column causes pressure on the transmitter and this pressure is proportional to the water level. Thus, using a level probe, the water level of e.g. an underground reservoir can directly be monitored by measuring the pressure above any convenient level measurement point.

A submersible pressure transmitter (level probe) is a pressure transmitter that may be suspended by the cable into a body of water or any other liquid media. The suspension cable will normally integrate a ventilation tube that allows the submersible pressure transmitter to eliminate any atmospheric disturbances such as changes in the atmospheric pressure due to weather effects within its electronics. This special design allows very accurate, stable and reliable level measurement.



A level probe, respectively a hydrostatic level sensor measures the increasing pressure in relation to the increase in level and in relation to the specific gravity of the media. Therefore the water level can easily and reliably be determined no matter how deep the measuring point is located. The hydrostatic level measurement provides the easiest way for level monitoring of groundwater and enables a simple and economic way of analysing underground reservoirs.

Please find further information on this topic on our information platform www.wika.com/hydrostatic-level



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