INFO

Dinel®

PRINCIPLES OF LIMIT LEVEL SENSING ADVANTAGES AND DISADVANTAGES

	High frequency (impedance spectral analysis)	
advantages ⊕	• replacement for vibrating level sensors • ignores deposits and material residues on the measuring part • also suitable for viscous media	• possibility of precise adjustment to a specific medium • also suitable for rippled surfaces and foaming media
disadvantages ⊖	• contact sensing method	• the method depends on the properties of the medium
	Capacitive sensor	
disadvantages ⊕	• simple electronics - low price • easy installation	• stability at high sensitivity • also suitable for media with low permittivity (loose and dusty)
disadvantages ⊖	• contact sensing method • the length of the electrode must be known in advance	• setup and commissioning • the method depends on the properties of the medium
	Ultrasonic sensor	
advantages ⊕	• contactless method • easy installation	• the method does not depend on the properties of the medium
disadvantages ⊖	• foam may affect the quality of the sensing • not intended for higher temperatures above + 70°C • impossibility of sensing in vacuum	• dead zone at the beginning of the range • not suitable for organic solvents, volatile and aggressive substances
	Conductivity sensor	
advantages ⊕	• simple electronics - low price	• simple installation
disadvantages ⊖	• contact sensing method • the length of the electrode must be known in advance	• intended only for water and aqueous solutions

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