



## CONDUCTIVE PROBE - KONDUNIVO

A.3

The conductive probe range provides reliable measurement in liquids and sludge and is particularly useful in the building industry.



### PROPERTIES

- Level monitoring in electrically conductive liquids and sludges
- Extremely robust design "Integrated electronics for evaluation
- Multi-bar-model for pump control

### CONDUCTIVE MEASURING PRINCIPLE

The fill level of a liquid is detected by measuring its conductivity using a conductive probe. The probe is fixed at the required measurement height in the container and is supplied with a minimal current. Once the probe comes into contact with the liquid the conductive circuit is completed via the metal container wall and a signal is sent out. By using alternating current, possible corrosion of the probe and possible electrochemical reactions are avoided. To ensure reliable measurement in rippling liquids an adjustable signal time delay has been built in. Probes with one electrode can be used in metal containers as full or empty detectors, with two electrodes as a full and empty detector in metal containers. With three electrodes it is possible to be used as a full and empty detector in non metal containers.



NAMUR IEC 60947-5-6

### APPLICATIONS

- Industry of building materials: Mortar, mud, concrete etc.
- Chemical industry: Acid, alkaline solution etc. (as far as 1.4301, PE, PUR is resistant)
- Environmental technology: Water level, sewage etc.

## MODEL

KN 2000



### PROPERTIES

- Level monitoring of electrical conductive liquids and sludges in metal containers
- Large range of applications in the building industry; also for the chemical industry and for Environmental technology
- Mechanically robust design
- Standard to every unit is a delayed signal output to ensure accurate measurement in rippling liquids
- The use of alternating current in the measuring circuit prevents corrosion of the probe rod and electrochemical reactions of the bulk liquid
- Adjustable sensitivity

### TECHNICAL SPECIFICATIONS

Housing	Aluminum IP 66
Certificates	CE
Temperature	-20°C up to +80°C
Pressure	max. +0,8bar
Sensitivity	continuously adjustable in 2 ranges
Supply voltage	22-240V / 11-120V / 42V / 24V +10% -15% 50/60Hz 20V - 30V DC
Process connection	G1", NPT 1½"
Screwed piece	Stainless steel 1.4301 or 1.4305



# LEVEL - SOLID LEVEL MEASUREMENT

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## APPLICATION QUESTIONNAIRE

Customer	Date
Application	<input type="checkbox"/> Empty detection <input type="checkbox"/> Full detection <input type="checkbox"/> Demand detection <input type="checkbox"/> Continuous
Actually used / installed switches / instruments	
Solid material	
Bulk density	
Filling situation	<input type="checkbox"/> Top load, central <input type="checkbox"/> Top load, side <input type="checkbox"/> Side load
Silo height	M
Diameter of silo	M
Material of silo	
Silo design - Dimensional sketch - Internal structure - Extension length of level switches - Mounting position of the level switches	
Outflow of material	
Ex zone inside	Yes No
Ex-zone outside	Yes No
Temperature inside silo	°C
Temperature outside silo	°C
Pressure inside silo	Bar
Supply voltage	___V 50Hz 60Hz DC
Process Connection	Thread Flange _____(size & material) Length of Nozzle:_____
Others	