



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



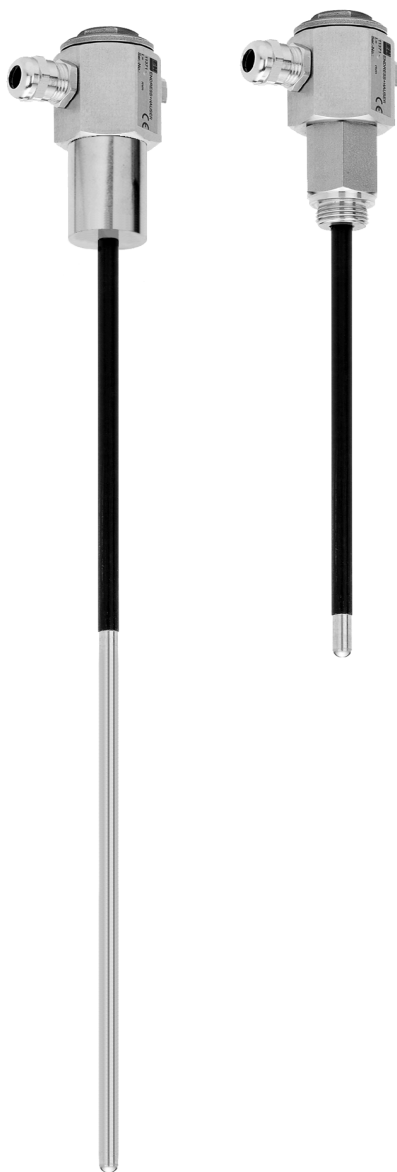
Solutions

Technical Information

Rod probe 11371

Conductive level limit detection

Partially insulated probe for use in liquid foodstuffs



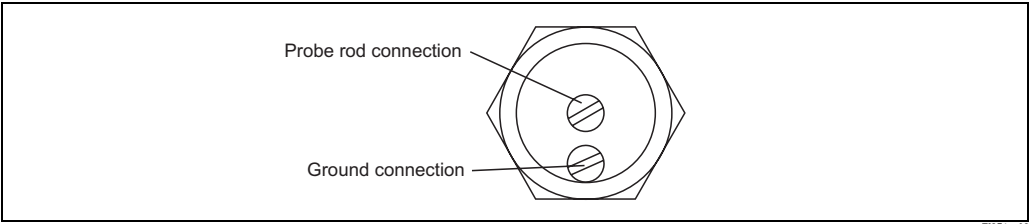
Application

- Conductive level limit detection in process or storage tanks for all kinds of liquids:
 - e.g. for milk, beer, fruit juice
 - for temperatures from -10°C to 100°C
 - for pressures up to 10 bar
- For minimum or maximum detection in tanks
- As pump protection in pipes
- Can be used for two-point control

Your benefits

- Corrosion resistant materials for rod and insulation = can be used with aggressive materials
- For CIP and steam sterilisation = no special cleaning procedures required
- Various process connections = optimum compatibility to the application
- Probe can be shortened as required = useful for maintaining reserves stock

Electrical connection



central terminal for the probe rod; side terminal for ground connection

Terminals in the housing are for wires with spade terminals for M4 screws.
The M16 cable gland is designed for cable diameters from 5.5 mm to 10 mm.

Ordering information

Rod probe 11371

10	Approval		
	1	Non-hazardous area	
20	Process Connection		Basic weight ¹⁾
	1	Weld-in socket 30 mm	0.59 kg
	2	Thread ISO 228 G1/2, 316 Ti	0.53 kg
	3	w/o process flange connection ²⁾	0.41 kg
	9	Special version	
30	Probe length		Additional weight
	1	 mm L, 316 Ti + PFA	0.04 kg/dm
	2	200 mm L, 316 Ti + PFA	0.08 kg
	3	500 mm L, 316 Ti + PFA	0.20 kg
	9	Special version	
995	Marking		
	1	Tagging (TAG)	
11371		Product designation	

1) Basic weight: Complete probe without stated length
2) For installation in apre-mounted welding neck adapter



Note!
Please state probe length in mm when ordering. Probe length is always measured from the lower edge of the process connection.

Technical Data

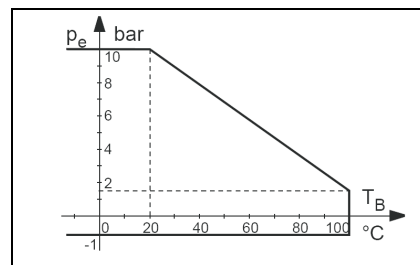
Application	Limit detection: Maximum or minimum detection in vessels with liquid, conductive food stuffs.
Input	■ Measured variable: Height (limit value, binary) ■ Measuring range (detection range): Length specified by vertically mounted probe (50 to 2000 mm from above). Specified by installation point when probe mounted horizontally.
Output	■ Probe: current, supplied by Nivotester. ■ Nivotester FTW325: See Technical Information.
Mounting	At any orientation; vertical from above preferred; probe length up to approx. 500 mm when mounted from the side, tip of sensor points slightly downwards for liquid to run off and prevent build-up of material.

Ambient conditions

- Ambient temperature and ambient temperature range: -20°C to $+120^{\circ}\text{C}$ (0°F to 250°F)
Note temperature resistance of connecting cable!
- Storage temperature: -20°C to $+120^{\circ}\text{C}$ (0°F ... 250°F)
- Ingress protection: With cable gland M16 x 1,5: IP66/ IP68 (1m, 1h) to EN 60529
- Electromagnetic compatibility (EMC): Interference immunity and interference emission: see Nivotester FTW325 limit switch

Process conditions

- Process temperature (operating temperature T_B): -10°C to $+100^{\circ}\text{C}$ (10°F to 210°F)
- Process temperature limit: $+150^{\circ}\text{C}$ (300°F)
(cleaning temperature, max. 30 min)
- Process pressure (operating pressure p_e): -1 bar to $+10$ bar (-14.5 psi to $+150$ psi)
- Maximum process pressure: 10 bar (150 psi)
- Conductivity of liquid: min. 0.02 mS/cm, see Nivotester FTW325 limit switch



Materials

part	material
probe rod	stainless steel 1.4571 (AISI 316 Ti)
welded boss	
threaded boss	
housing	
partial insulation	0,2 mm PFA, sinter-fused
gasket in process connection	silicone
cable gland M16	brass, nickel-plated, with silicone gasket

Ordering information

- Probe 11371: see ordering information → 3
- Welded boss (for probe "without process connection") Order No. 517211-1000
- Supplementary documentation: Technical Information on the Nivotester FTW325 limit switch on request

For more Endress+Hauser product please visit: www.ainstru.com

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