

A 3D rendering of a long, thin, metallic surgical instrument, likely a probe or needle. The instrument features a long, straight shaft with a fine, cross-hatched texture. The handle is a wider, cylindrical section with a similar texture. At the top, there is a spherical head with a small, circular opening and a small, rectangular protrusion. The entire instrument is shown against a plain, light gray background.

Specification

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graph TD
    Sensors[Sensors] --> Design[Design of transmitter]
    Sensors --> Material[Material of the sensor mantle]
    Sensors --> Resistance[Type of the sensing resistance]
    
    Design --> Design3_1[3 Normal]
    Design --> Design3_2[4 Pressure proof]
    
    Material --> Material3_1[0 SST Rigid metal tube]
    Material --> Material3_2[1 SST Flexible metal tube]
    Material --> Material3_3[2 Flexible plastic]
    
    Resistance --> Resistance4_1[0 Silicon]
    Resistance --> Resistance4_2[1 100 Ohm Pt]
  
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Sensors									
Design of transmitter			Material of the sensor mantle			Type of the sensing resistance			
3	Normal		0	SST Rigid metal tube		0	Silicon		
4	Pressure proof		1	SST Flexible metal tube		1	100 Ohm Pt		
			2	Flexible plastic					

Range of temperature	-20 ... +150 °C Si -60 ... +300 °C Pt
Ex-proof safety	EEx ia IIB T6 ill.
Protection (MSZ IEC 529)	Electronics: IP 65 Sensor chain: IP 67
Range of environmental temperature	-20 ... +60 °C
Relative humidity	30 ... 98%
Permissible vibration during operation	25 Hz; 0,1 mm ampl.
Length	according to order max. 30m rigid metal tube max. 6m
Weight	depends on design
Accuracy	<0,5°C SI <0,2°C PT100
Output signal	RS485 MODBUS
Flange	NA50 (optionally NA40)

The number of needed measuring elements as function of the height of the liquid

Height of liquid (m)	Number of measuring elements (pcs)
0- 1,6	1
0- 2,3	2
0- 3,2	3
0- 4,5	4
0- 6,5	5
0- 7,7	6
0- 9,6	7
0-12,0	8
0-15,0	9
0-18,8	10
0-23,2	11
0-30,0	12