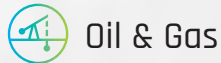


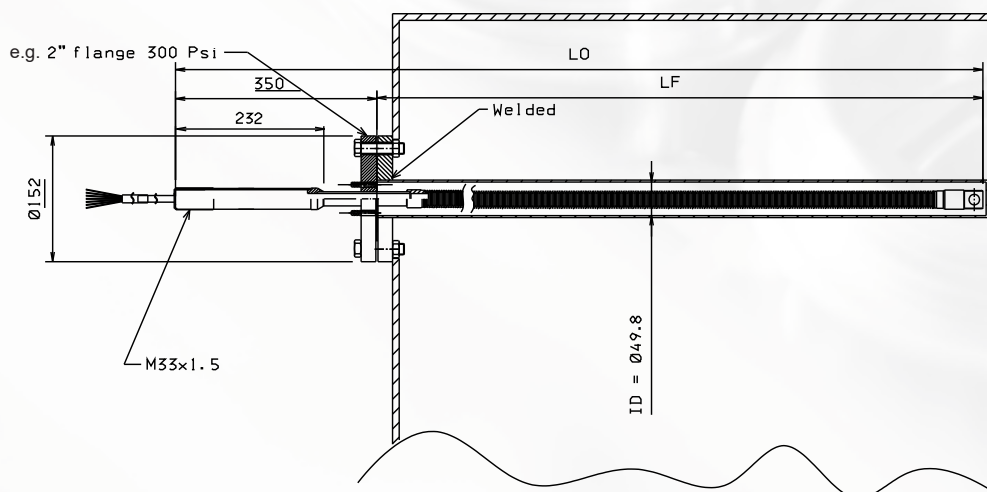
# Resistance thermometer

## TYPE NL-Cryo



### Multi-spot sensor for cryogenic use: -200°C to +95°C

- Type NL-Cryo is a multi-spot thermometer for measurement of average temperatures, primarily in stationary tank systems, with requirements to the tolerance and the response time of the temperature measurement. Type NL-Cryo is often used in connection with measuring of volume in e.g. gas/LNG.
- The measuring elements are according to EN 60751. Max. 20 elements per sensor. Min. 150 mm from bottom of the sensor to the first spot.
- Flex tube of stainless steel, standard 1" or 3/4".
- Accessories: Terminal boxes and transmitters (see separate data sheet).
- Technical information regarding material and connection diagrams: see separate data sheet.
- Approvals: ATEX, German PTB  
FM08ATEX0060X  
IECEX FME08.0007X  
CE 2804 Ex II 1G FM APPROVED  
Ex ia IIC T5
- Tube filled is with dry Argon gas from the factory to prevent condensation of water inside the sensor.



Ordering: See ordering form on back page

# ORDERING FORM / RESISTANCE THERMOMETER \*

# TYPE NL-Cryo

Overall length/LF Min. 950 mm - max. 100,000 mm Optional length .....		Placement of spots in mm		Cable lead-out - total length LK 1 ..... Rose junction box with M33x1.5 Or optional length Min. 500 mm - max. 26,500 mm		V 3.4	
Sheath dia. 1" ..... 1 3/4" ..... 2		Temperature range 1 ..... With drain nipple -200 / +95°C 2 ..... Without drain nipple -200 / +95°C		Tolerance Class EN 60751 Cl. A: ±0.15°C		1	
Connection - M33x1.5 - Flange Type		Sensing element ..... 1xPt100		Number of spots ..... See spot limitations <sup>1)</sup>		2	
1 1/2" ANSI 150 psi welded ..... 61		Number of conductors		..... 3 wire		3	
2" ANSI 150 psi welded ..... 62		..... 4 wire		..... Common return		4	
3" ANSI 150 psi welded ..... 63		..... 5				5	
4" ANSI 150 psi welded ..... 64						6	
6" ANSI 150 psi welded ..... 65						7	
8" ANSI 150 psi welded ..... 66						8	
10" ANSI 150 psi welded ..... 67						9	
1 1/2" ANSI 300 psi welded ..... 71						10	
2" ANSI 300 psi welded ..... 72						11	
3" ANSI 300 psi welded ..... 73						12	
4" ANSI 300 psi welded ..... 74						13	
6" ANSI 300 psi welded ..... 75						14	
8" ANSI 300 psi welded ..... 76						15	
10" ANSI 300 psi welded ..... 77						16	
DN50 PN16 welded ..... 81						17	
DN50 PN40 welded ..... 82						18	
DN65 PN16 welded ..... 83						19	
DN65 PN40 welded ..... 84						20	
DN80 PN16 welded ..... 85							
DN80 PN40 welded ..... 86							
DN100 PN16 welded ..... 87							
DN100 PN40 welded ..... 88							
Other (special defined by customer) ..... 00							

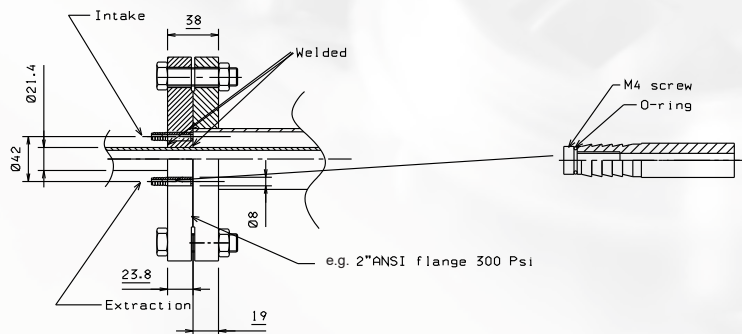
**1) Spot limitations:**

- Sheath 1" - max. 16 spot with 4 wires
- Sheath 3/4" - max. 10 spot with 4 wires
- Sheath 3/4" - max. 14 spot with 3 wires

Recommended installation in welded thermowell, which should be filled with dry Argon gas.

If the sensor is used in pressurized tanks, it must be protected by thermowell with ambient pressure inside.

Non adjustable welded flange.



\*Some configurations are unavailable. Your Senmatic sales person will notify you if you have made an incorrect selection.