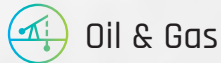



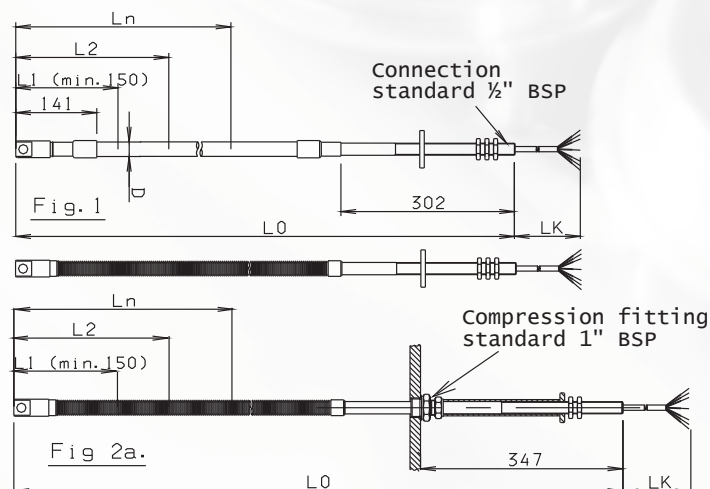
# Resistance thermometer

## TYPE NLI



### Multi-spot thermometer

- Type NLI 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 NLI is often used in connection with measuring of volume in e.g. oil or bitumen or for estimating the accumulated energy in bulk storing tanks.
- The measuring element is according to EN 60751. Min. 150 mm from bottom of the sensor to the first spot and minimum 850 mm from top of sensor to the last spot.
- Flex tube of stainless steel, PTFE (not Atex), standard 3/4 or 1".
- Accessories: Flanges, weights, terminal boxes and transmitters (see separate data sheet).
- Technical information regarding material and connection diagrams: see separate data sheet.
- Approvals: ATEX - all types except PTFE.  
IECEX FME08.0007X  
FMOBATEX0060X
-   $\text{CE 2804 Ex II 1G FM APPROVED}$
- Temp. range:  $-50^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ ; Ex ia IIC T4T
- Temp. range:  $-50^{\circ}\text{C}$  to  $+250^{\circ}\text{C}$ ; Ex ia IIC T2



Ordering: See ordering form on back page

# ORDERING FORM / RESISTANCE THERMOMETER \*

## TYPE NLI

**Overall length/LO**  
Min. 950 mm - max. 70,000 mm  
Optional length .....

**Sheath dia.**  
1" (max. 20 elements) ..... 1  
3/4" (max. 15 elements) ..... 2  
Ø20 mm (max. 10/15 elements) ... 3  
Not Ex-approved

**Material**  
AISI 316 ..... 1  
PTFE (not ATEX-approved) ..... 3

**Connection type**

1/2" BSP .....	1
M33x1.5 .....	7
1 1/2" ANSI 150 psi .....	21
2" ANSI 150 psi .....	22
3" ANSI 150 psi .....	23
4" ANSI 150 psi .....	24
6" ANSI 150 psi .....	25
8" ANSI 150 psi .....	26
10" ANSI 150 psi .....	27
1 1/2" ANSI 300 psi M33x1.5 .....	31
2" ANSI 300 psi M33x1.5 .....	32
3" ANSI 300 psi M33x1.5 .....	33
4" ANSI 300 psi M33x1.5 .....	34
6" ANSI 300 psi M33x1.5 .....	35
8" ANSI 300 psi M33x1.5 .....	36
10" ANSI 300 psi M33x1.5 .....	37
DN50 PN16 M33x1.5 .....	41
DN50 PN40 M33x1.5 .....	42
DN65 PN16 M33x1.5 .....	43
DN65 PN40 M33x1.5 .....	44
DN80 PN16 M33x1.5 .....	45
DN80 PN40 M33x1.5 .....	46
DN100 PN16 M33x1.5 .....	47
DN100 PN40 M33x1.5 .....	48

Placement of spots in mm

**Cable lead-out - total length LK**

1	..... Junction box 1/2" BSP
2	..... M25x1.5 cable connection
3	..... Junction box 3/32" BSP
4	..... M25x1.5 cable connection
5	..... Junction box 1/2" BSP
6	..... M32x1.5 cable connection
7	..... Or optional length
8	..... Min. 500 mm - max. 35,000 mm

**Temperature range**

1	..... -50 / +120°C (SS)
2	..... -50 / +200°C (SS)
3	..... -50 / +250°C (SS)

**Tolerance Class EN 60751**

1	..... Cl. A: ±0,15°C
2	..... Cl. B: ±0,3°C
3	..... 1/3 Cl. B: ±0,1°C
4	..... 1/6 Cl. B: ±0,05°C
5	..... 1/10 Cl. B: ±0,03°C

**Sensing element**

1	..... 1xPt100
2	..... 2xPt100

**Number of spots**

3	.....
4	.....
5	.....

**Number of conductors**

3 cord.	..... (max. 14 elements)
4 cord.	..... (max. 11 elements)
Common return	..... (max. 20)

**Connection diagram:**

Common return

3 wire

4 wire

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