Level- and temperature sensor Nivotemp NT M-L

The IO-Link compatible combo sensors in the Nivotemp L series are a cost-effective and efficient option for monitoring the liquid level and temperature in oil tanks in hydraulics and lubrication technology. The digital, bidirectional communication of these sensors meets all requirements of modern plant automation, reduces acquisition and installation costs, and improves system availability. Their robust design makes them suitable for virtually any liquid properties, allowing a wide range of applications.

The Nivotemp NT M-L series meets virtually all requirements arising in this area of application.

Connecting flange G3/4 and G1

Continuous liquid level and temperature measurement

Resolution 10 mm (liquid level)

IO-Link and 1x programmable switching output

Proven and tested highly dynamic float system

NBR float, brass immersion tube

Immersion tube length up to 950 mm (longer upon request)



Fluidcontrol

IO-Link





Bühler Technologies GmbH, Harkortstr. 29, D-40880 Ratingen

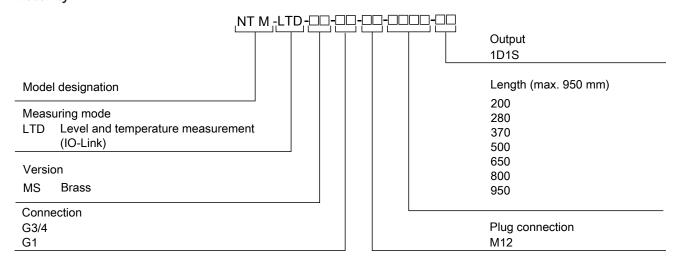
Technical Data NT M-L

Basic unit

Version	MS				Dimensions
Operating pressure:	max. 1 bar		*		M12x1
Medium temperature:	-20 °C to +80 °C				
Ambient temperature:	-20 °C to +70 °C		63.5		
Float:	SK 161			1.4	1 = H 3 ØA
Min. fluid density:	0.8 kg/dm³		_	<u> 1</u>	Profile gasket
Lengths (all versions):	200, 280, 370, 500, 650,	800 and 950 mm	_ 1		(NBR)
Material/Version					
Float:	NBR				age distribution and age
Immersion tube:	Brass				g
Flange G3/4:	Brass			L2	Measuring range A5
Flange G1:	Brass			_	Mea
Seals:	NBR/FKM				
Weight at L=500 mm:	G3/4 = approx. 300 g, G	1 = approx. 390 g			
Input values	Level	Temperature	_		↓MIN.
Measuring principle:	Reed-contact	Pt100 Cl. B, DIN EN 60751		1	(c) G3/4 G1
Resolution:	10 mm			45	ØA 32.3 39.9
Tolerance:		± 0.8 °C			H 16 18 SW 36 41
Operating voltage:	18 - 30 VDC		- +	•	3.5 SW 30 41
Analysis display electronics accuracy:	±1% from end value	±1% from end value			
Measuring range	0 to 100 %	-20 °C to +120 °C			NS (N)
IO-Link	Revision 1.1				
Baud rate:	COM3 (230.4 k)				
SIO Mode:	Yes				
min. time period:	10 ms				

NT M-L Ordering Instructions

Model key



Ordering example

You need: Level and temperature measurement with 10 mm resolution, brass version, G1 plug connector and length

L = 500 mm

Order: NT M-LTD-MS-G1-M12-500-1D1S

Nivotemp NT M-L

Accessories

Item no.	Description
9144 05 0010	Connecting cable M12x1, 4-pin, 1.5 m, angular coupling and straight plug
9144 05 0046	Connecting cable M12x1, 4-pin, 3.0 m, angular coupling and straight plug
9144 05 0047	Connecting cable M12x1, 4-pin, 5.0 m, angular coupling and strands

Standard Pin Assignment NT M-L

Connector

	M12 plug A coded		
Dimensions	M12x1		
Number of pins	4-pin		
DIN EN	61076-2-101		
IP rating	IP67*		

^{*}with IP67 cable box attached

Version	LTD-1D1S		
Plug	M12 4-pin		
Connection schematic	3 0 0 1		
Pin			
1	+24VDC		
2	S2 (PNP max. 200 mA)		
3	GND		
4	C/Q (IO-Link)		