

# Nivotemp 61-0-WW



The ingress of water into fluid power or lubrication systems reduces the life of oil significantly and causes damage to other components used in the systems .  
The most reliable method to detect free water in oil is to measure the interface level between water and oil.

This Nivotemp version is equipped with an additional float which raises in water but sinks in oil.

The reservoir has to be equipped with a small cavity in the bottom and the contact tube of the Nivotemp reaches down to the lowest point of the cavity.

When a volume of approx. 230 ml of free water accumulates in the cavity the float will raise and actuate a contact. The signal can either be used to open a drain valve and drain the water off or just to set an alarm.

An easily installed prefabricated sump is available as an accessory.

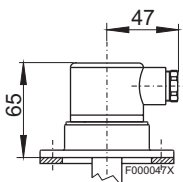
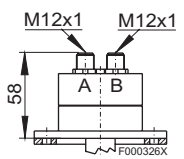
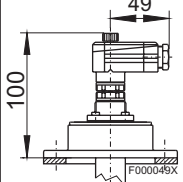
- **With water alarm function**
- **Reliable physical measuring system**
- **Easy installation**
- **Independent of oil chemistry**
- **Up to four adjustable level contacts**
- **Cable connector standard**

## Technical Data

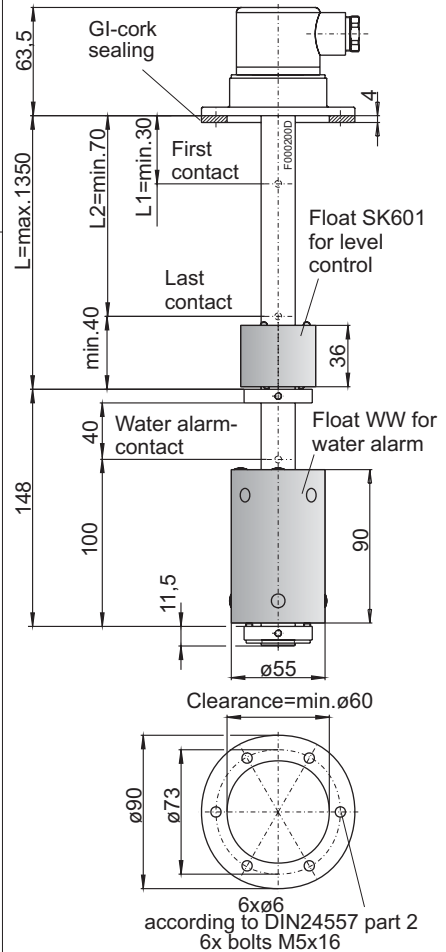
Operating pressure	max. 1 bar
Operating temperature	max. 80 °C
Spec. gravity of fluid	min. 0,8 kg/dm <sup>3</sup>
<b>Material:</b>	
Float SK 601 for level control	hard PU
Float WW for water alarm	PPH
Switch tube	brass
Flange	PA 6

Level contacts / water alarm contacts	K10	W11	-	-
Function	*NC / NO	change over	*NC / NO	change over
Distance of contact, min.	40 mm	40 mm	fixed	fixed
Max. voltage	230 V	48 V	230 V	230 V
Max. current	0,5 A	0,5 A	1 A	1 A
Contact load	10 VA	20 VA	50 VA	40 VA

\*NC=normally closed / NO=normally open, all figures at empty reservoir

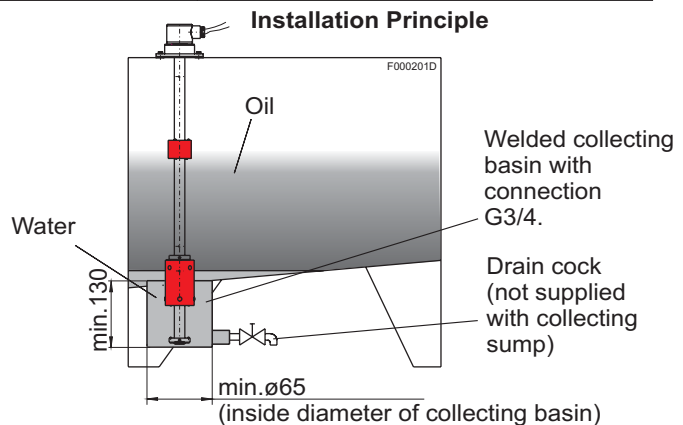
Connectors	S6	2xM12 (socket)	C6F
(Other connectors upon request)	6 pol. + PE DIN 43651	4 pol / 4 pol.	6 pol. + PE DIN 46651
Protection class	IP 65	IP 67**	IP 65
Cable gland	M20x1,5	PG7**	PG11
		**with plug fixed	
			
Max. no of contacts or or or	4xK10 + 1xK6 2xW11 + 1xK6 3xK10 + 1xW7 1xW11 + 1xW7	2xK10 + 1xK6 1xW11 + 1xK6 2xK10 + 1xW7 1xW11 + 1xW7	4xK10 + 1xK6 2xW11 + 1xK6 3xK10 + 1xW7 1xW11 + 1xW7
Max. voltage	230 V AC/DC 48 V with change over contacts	24 V DC	230 V AC/DC 48 V with change over contacts

## Dimensions (mm)



## Installation example

A small collecting basin is welded to the floor of the reservoir at the deepest appropriate point (see also installation principle). We recommend to use the prefab sump but you are free to provide a solution yourself. To make the unit effective the volume of the collecting basin should be as small as possible. Therefore please use the recommended dimensions.



## Ordering information

**Basic version** (without level- and water alarm contacts)

Part-no.	Description	Connector	Length
10 30 099	Nivotemp 61-0-WW-S6-level contacts-water alarm contacts	S6	L (max. 1350 mm)
10 30 799	Nivotemp 61-0-WW-2xM12-level contacts-water alarm contacts	2xM12	L (max. 1350 mm)
10 30 899	Nivotemp 61-0-WW-C6F-level contacts-water alarm contacts	C6F	L (max. 1350 mm)

Part-no.	Description	Number of contacts	Type	Length
18 89 999	Level contact K10	see table connectors	NC / NO	L1 (, L2, L3, L4)
18 90 999	Level contact W11	see table connectors	change over	L1 (, L2, L3, L4)
18 50 999	Water alarm contact K6	1	NC / NO	fixed
18 49 999	Water alarm contact W7	1	change over	fixed

## Accessories:

10 30 0991 collecting sump (with connection G3/4, include plug), dimensions:  $\varnothing 70/2,6$  x height=133mm

## Example:

You need:

Nivotemp (Basic): Connector: type S6; length L= 580 mm,  
Level contacts: 1<sup>st</sup> contact 100 mm NC,  
2<sup>nd</sup> contact 500 mm NO,  
Water alarm contact: 1, normally closed (NC)

You order:

10 30 099 Nivotemp 61-0-WW-S6-2xK10-1xK6, L= 580  
18 89 999 2 x level contacts K10,  
L1=100 NC, L2 = 500 NO  
18 50 999 1 x water alarm contact K6, NC