

# 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**

# Technische Daten

operating pressure max. 1 bar  
 operating temperature max. 80 °C  
 spec. gravity of fluid min. 0,8 kg/dm<sup>3</sup>

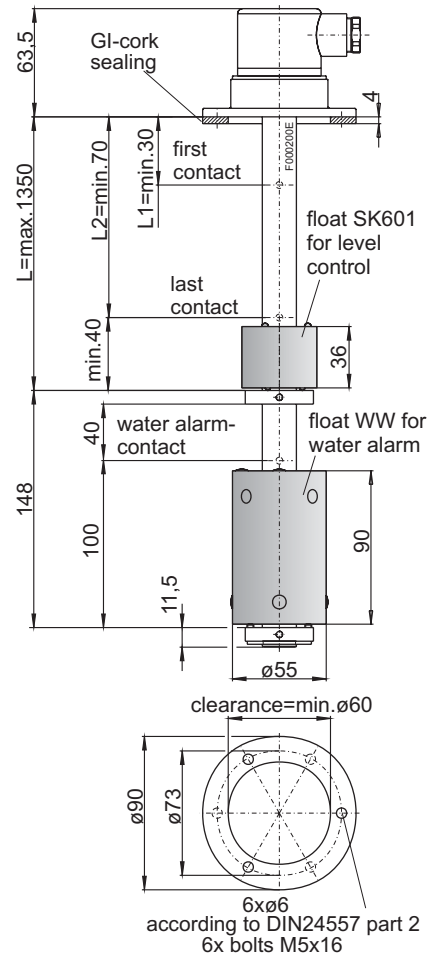
**material:**

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	- K6	- W7
function	*NC / NO	-	*NC / NO	change over
min. distance of contact	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
part-no	1889999	1890999	1850999	1849999

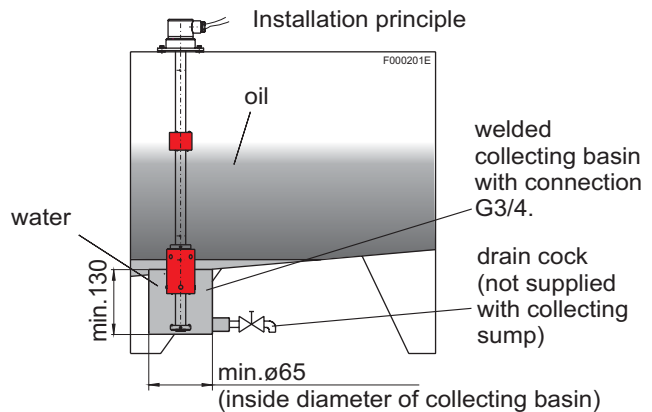
\*NC=normally closed / NO=normally open, all figures at empty reservoir

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 cable gland	IP 65 M20x1,5	IP 67** PG7** **with plug fixed	IP 65 PG11
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



**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**

part-no of basic version, without level- and water alarm contacts

with connector	S6	2xM12 (socket)	C6F
L=variable Nivotemp 61-0-WW	1030099	1030799	1030899

**order example:**

you need: lenght L= 580 mm, connector type S6, 2 level contacts, first contact L1=100 mm NC, second contact L2= 500 NO, water alarm contact normally closed (NC)

you order: 1030099 Nivotemp 61-0-WW-S6-2xK10-1xK6, L= 580, 2 x level contacts K10 (1889999) L1=100 NC, L2 = 500 NO and 1x water alarm contact K6 (1850999) NC.

**accessories:** collecting sump (with connection G3/4, include plug)  
 dimensions: Ø70/2,6 x height=133mm  
 part-no: 10300991