

# Nivovent 76 with Thermotronic 71

**easyjust**



The Nivovent 76 featuring the Bühler “easyjust” technology is a compact economic combination of level switch and the precise indication and measurement of temperature with 4-20 mA analog output.

The “easyjust” system simplifies the adjustment of the level contacts. The system consists of level contact cartridges that clip onto a gold plated contact board which incorporates the Pt100 temperature sensor. Both the level contacts and the temperature control clip directly onto the contact board thus eliminating wiring.

Alternatively the unit can be supplied to provide a continuous level signal of 4-20 mA. The unit is supplied with a DIN 24557 flange for ease of installation and a wide variety of electrical terminations. The connection between the terminal blocks and the contact board is also a quick change type making this unit very adaptable for a wide variety of applications.

- **combination of breather/filter, level and temperature control**
- **4-20 mA or 0-10V temperature signal**
- **”clip on” adjustable level contacts or continuous level signal 4-20 mA**
- **high float sensitivity**
- **standard connectors**
- **easy installation**
- **maintenance free (except filter element)**
- **high visibility LED display**
- **standard lengths 250, 370, 520 mm**

## 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	: hard PU
switch tube	: brass
flange	: PA
breather	: PA
retention rate	: SM-L = 3 µm

### level contact **single contact\* or change over**

min. distance between contacts	: 40 mm
max. voltage	: 24 V
max. current	: 0,5 A
max. contact load	: 10 VA

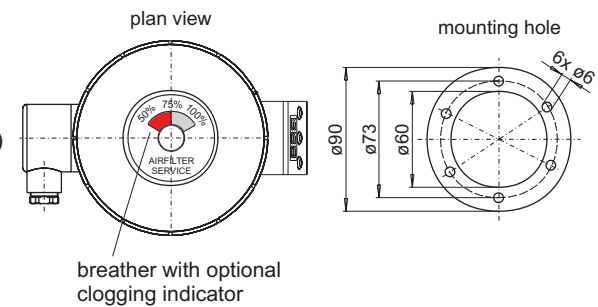
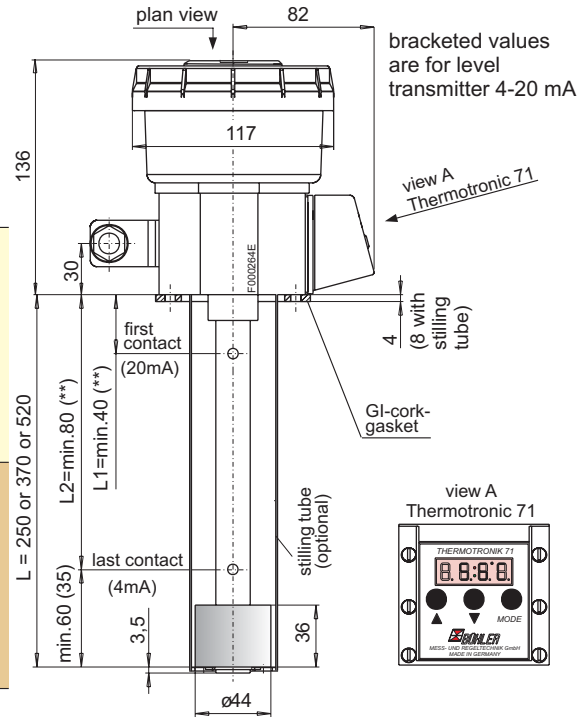
\*NC=normally closed / NO=normally open, all figures at **empty reservoir**

### level transmitter

measuring resistor	: reed contact
resolution	: 4 mm
voltage (UB)	: 10 - 30 V
ripple	: < 1 %
output	: 4-20 mA
load Ω max.	: $R = UB - 7,5V / (0,02A)$

## Thermotronic 71

range of temperature display	: from -20 to +120 °C / 4° to 248 °F	** measures at continuous level 4-20mA
range of alarm indication	: 0 to +99 °C or 32° to 178 °F	L1 L2
material housing	: PA, IP65	L=250 55 215
display	: four digit seven segment-LED-display, light emitting diodes for status display	L=370 25 335
current consumption at power up	: about 140 mA for 100 ms	L=520 25 485
operating current consumption	: approx 30 - 50 mA	
supply voltage	: 24 VDC ±10 %	
output	: 4-20 mA (4mA=0°C / 20mA=100°C) or 0-10 V (0V=0°C / 10V=100°C)	
ambient temperature	: 0 - 70 °C	
accuracy	: 1 % of full range	
resolution	: 1 °C / 2 °F	
programming	: via three touch keys	
temperature sensor	: Pt 100	

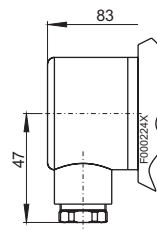


## General description of Thermotronic 71

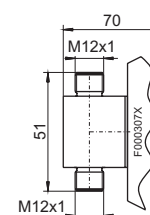
The Thermotronic 71 is a combined microprocessor controlled digital display and control unit for monitoring and stabilizing the operating temperature in fluid power systems.

The actual temperature is displayed on a high visibility LED display. The status of the entire unit (output, sensor, broken wire) is indicated by separate LED's. The value can be set to Celsius or Fahrenheit. The unit provides an output signal of 4-20 mA or 0-10V. Programming is by touch keys. The settings are protected against unauthorized operation by key lock.

connector S6



connector 2x M12



## How to select your individual Nivovent 76

1. Select basic version: with level contacts or continuous level signal 4-20mA
2. For level contacts: type single contact or change over and number, add requested position L1 - L2 and function NC or NO.
3. Select connector: type of connector determines the possible numbers of level and temperature controls.
4. All: replace **L** with requested length L by **2** for 250mm, **3** for 370mm, **5** for 520mm.
5. All: replace **F** by respective figure for required accessories as per table on right hand side.

Nivovent 76	level contacts ▶	1xNC/NO	2xNC/NO	1xchange over
	connector ▼			
4-20 mA temperature output ▶	S6	107611200LF	107612200LF	107618200LF
	2x M12	107631200LF	107632200LF	107638200LF
0-10 V temperature output ▶	S6	107611400LF	107612400LF	107618400LF
	2x M12	107631400LF	107632400LF	107638400LF
		continuous level signal 4-20mA*		
4-20mA temperature output ▶	S6		107616200LF	
	2x M12		107636200LF	

\*no easyjust

options			
F	stiling tube	clogging indicator	refilling protective -cap
2	No	No	No
3	Yes	No	No
4	No	Yes	No
5	Yes	Yes	No
6	No	No	Yes
7	Yes	No	Yes
8	No	Yes	Yes
9	Yes	Yes	Yes

**order example**

part-no. with additional text: 10761120021 ; L1=60 NO