The Nivovent 75 RE featuring the Buhler “easyjust” technology is a compact economic combination of level switch and precise temperature control with LED display. The unit can provide two temperature alarm/switch outputs in addition to two level contacts.

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 (RTD) temperature sensor. Both the level contacts and the temperature controls clip directly onto the contact board thus eliminating wiring.

The unit has a DIN 24557 flange for ease of installation and a 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.

The Nivovent 75RE in this configuration complies with the Renault requirements. It provides two M12 connector sockets, a temperature display, preset level contacts and a stilling tube.

Please note that our product range contains more Renault specific versions of the Nivotemp and Nivovent series.

- Combination of breather/filter, level and temperature control
- Adjustable alarm outputs for temperature
- Cordless adjustable level contacts
- High float sensitivity
- Easy installation
- Maintenance free (except filter element)
- High visibility LED display
- Standard length 9.84” and 14.57”
- Visual clogging indicator and antifilling device
Technical Data

Max. operating pressure 1 bar (14.5 psi)
Max. operating temperature 80 °C (176 °F)
Min. density of fluid 0.8 kg/dm³ (0.029 lb/in³)

Material:
- Float SK 610
- Switch tube brass
- Flange PA
- Breather PA
- Retention rate SM-L = 3 µm

Level contact
- single contact*

Min. distance between contacts 1.57"
Max. voltage 24 V
Max. current 0.5 A
Contact load 10 VA

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

Thermotronic 71

Range of temperature display from 4° to 248 °F (-20 to +120 °C)
Alarm indicator range 32° to 178 °F (or 0 to +99 °C)
Programmable set points max. 2
Material housing PA, IP65
Display four digit seven segment-LED-display, light emitting diodes for status display

Current consumption at power up about 140 mA for 100 ms
Operating current consumption approx 30 - 50 mA
Supply voltage 24 VDC ±10 %
Output PNP
Ambient temperature 32 - 158 °F
Accuracy 1 % of full range
Resolution 2 °F / 1 °C
Programming 3 button key pad
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.

Programming is by touch keys. The settings are protected against unauthorized operation by key lock.

Order Information

Nivovent 75 RE

| Part-no   | Connector | Display | Lₐ1 | L₁= | L₂= | Temperature- | Temperature- | Stilling | CI* | Antifilling |
|-----------|-----------|---------|-----|-----|-----| contact T₁ | contact T₂ | tube     |     | device      |
| 1075900113 | 2xM12     | yes     | 14.57”| 11.81” | NO** | T₁ = 158 PNP | -           | yes      | yes | yes          |
| 1075900118 | 2xM12     | yes     | 9.84” | 7.87”  | NO** | T₁ = 158 PNP | -           | yes      | yes | yes          |
| 1075900119 | 2xM12     | yes     | 14.57”| 7.87”  | NO** | T₁ = 158 PNP | -           | yes      | yes | yes          |
| 1075900120 | 2xM12     | yes     | 14.57”| 5.91”  | NO** | T₁ = 104 PNP | T₂ = 158 PNP| yes      | yes | yes          |

*CI = clogging indicator
** NO = normally open