Systematic oil care is of great importance to operators of fluid power and lubrication systems who wish to minimize maintenance costs and optimize the durability of both the oil and system components.

Checking both cleanliness and chemical composition is made easier by having a dedicated sampling port. Topping up the system through a dedicated G1/2 port fitted with a quick release coupling ensures cleanliness and facilitates the use of filter carts.

By incorporating the above features with a level control, temperature control and breather filter with condition indicator, BÜHLER has designed an integrated solution giving cost savings on installation and tank apertures. It should be noted that the filler port is totally isolated from the float tube in order to prevent incorrect level readings while filling/topping off.

The fluidcontrolterminal FC-T G1/2-75-DC 75DC in this configuration complies with the Daimler requirements. It provides two M12 connector sockets, a temperature display and preset level contacts.

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

- Level controls
- Temperature controls
- DIN - flange
- Filling port G1/2
- 3 µm breather filter including fill prevention insert
- Clogging indicator
- Compact dimensions
- Easy installation
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 hard PU
Switch tube brass
Stilling tube brass
Flange galvanized steel
Breather PA
Filter element (retention rate) SM-L (3 µm)

Level contact K101 and K102
Function NC / NO*
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 210 °F (0 to +99 °C)
Programmable set points 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 (0 - 70 °C)
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

FC-T G1/2-75DC

<table>
<thead>
<tr>
<th>Part-no</th>
<th>Connector</th>
<th>Display</th>
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<th>L2=</th>
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</tbody>
</table>

*NC=normally closed / NO=normally open

Accessories
Part No. 9144050018 Connecting cable M12x1 with 1 x 5 pole M12 plug cable length: 9.8 ft

we reserve the right to amend specifications