

Fluidcontrolterminal -7x /-8x



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 G3/4 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 whilst filling/topping up.

The fluidcontrol terminal is available in six basic versions and there are a number of customized models available.

- **level controls**
- **temperature controls**
- **DIN - flange**
- **filling port G3/4**
- **3 µm breather filter including fill prevention insert**
- **clogging indicator (optional)**
- **sample port**
- **compact dimensions**
- **easy installation**
- **modular design (filling adapter and level switch)**

Level switch: Nivovent 71 FC-T for fluidcontrol-terminal -7x /-8x
-For more details of technical data see data sheet de 10 0071 -

Part No of basic version includes fill prevention insert, **without** contacts

Without clogging indicator

Connector		M3	S6	M12	2xM12
L=370mm	Nivovent 71-0-FC-T	10171199A	10171299A	10171399A	10171499A
L=520mm	Nivovent 71-0-FC-T	10271199A	10271299A	10271399A	10271499A
L=variable	Nivovent 71-0-FC-T	10071199A	10071299A	10071399A	10071499A

With clogging indicator

Connector		M3	S6	M12	2xM12
L=370mm	Nivovent 71-0-FC-T	10171199B	10171299B	10171399B	10171499B
L=520mm	Nivovent 71-0-FC-T	10271199B	10271299B	10271399B	10271499B
L=variable	Nivovent 71-0-FC-T	10071199B	10071299B	10071399B	10071499B

Order example:

You need : Length L=370mm , 1x level contact at L1=300mm with function NO (at rising level) , connector M12, temperature contact 70°C function=NC (at rising temperature) , filter cap with clogging indicator

You order : Nivovent 71-0-MS-FC-T-M12 , part No :10171399A ,
 1x contact K10 (1889999) L1=300 NO , 1x TKÖ-70 (1844999)

Level switch: Nivovent 73 K- / KN- FC-T for fluidcontrol-terminal -7x /-8x
-For more details of technical data see data sheet de 10 0073 -

Part No of basic version includes fill prevention insert, **without** contacts

with continuous level- and temperature control **73 K-**

clogging indicator		without		with	
connector		S6	2xM12	S6	2xM12
L=370mm	Nivovent 73 K-FC-T	10730099A	10730199A	10730099B	10730199B
L=520mm	Nivovent 73 K-FC-T	10730899A	10730999A	10730899B	10730999B
L=variable*	Nivovent 73 K-FC-T	10731699A	10731799A	10731699B	10731799B

with continuous level control **73 KN-**

clogging indicator		without		with	
connector		M3	M12	M3	M12
L=370mm	Nivovent 73 KN-FC-T	10730499A	10730599A	10730499B	10730599B
L=520mm	Nivovent 73 KN-FC-T	10731299A	10731399A	10731299B	10731399B
L=variable*	Nivovent 73 KN-FC-T	10732099A	10732199A	10732099B	10732199B

*length variable, steps of 150mm ; 73 K- / KN- with L=min. 220mm, max. 1420mm

Order example:

You need : Length L=370mm, connector S6, with continuous level and temperature output 4-20mA level with L1 = 20 mA = 25mm and L2 = 4mA = 335mm , without clogging indicator in filter cap

You order : Nivovent 73 K-FC-T-S6 , part-no :10730099A ; L1=25mm , L2=335mm

Level switch: Nivovent 74 FC-T for fluidcontrol-terminal -7x /-8x
-For more details of technical data see data sheet de 10 0074 -



1. Select basic version: level only or level plus temperature control (Pt100, 4-20mA or TK).
2. Select level contacts: type (single contact or change over) and number, add requested position L1 - L4 and function NC or NO.
3. Select connector: type of connector determines the possible numbers of level and temperature controls.
4. For TK only: replace **XX** by **50, 60, 70 or 80** for temperature setting in °C, replace **Y** with **1** for function NO or **2** for NC.
5. All: replace **L** with requested length L, **2** for 250mm , **3** for 370mm or **5** for 520mm.
Attention! Please note that the length L of Nivovent and selected filling adapter must be the same!
6. All: replace **F** by respective letter **A** or **B** for required accessories as per table on right hand side.

Nivovent 74 FC-T	level contacts ▶	1xNC/NO	2xNC/NO	3xNC/NO	4xNC/NO	1xchange over	2xchange over
	connector ▼						
level only ▶	S6	107411000LF	107412000LF	107413000LF	107414000LF	107418000LF	107419000LF
	M12	107421000LF	107422000LF	-	-	107428000LF	
	M3	107441000LF	107442000LF	-	-	107448000LF	
level plus temperature control	Pt100 ▶	S6	107411100LF	107412100LF	107413100LF	-	107418100LF
		2x M12	107431100LF	107432100LF	-	-	107438100LF
	4-20mA output ▶	S6	107411200LF	107412200LF	107413200LF	-	107418200LF
		M12	107421200LF	-	-	-	-
		2x M12	107431200LF	107432200LF	-	-	107438200LF
		M3	107441200LF	-	-	-	-
TK (temperature-contact) ▶	S6	107411XXYLF	107412XXYLF	107413XXYLF	-	107418XXYLF	
	M12	107421XXYLF	-	-	-	-	
	2x M12	107431XXYLF	107432XXYLF	-	-	107438XXYLF	
	M3	107441XXYLF	-	-	-	-	

Accessories	
F=	Clogging indicator
A	NO
B	Yes

Order example
 Part-no with additional text : 1074125013A ; L1=60 NO, L2=120 NC

Level switch: **Nivovent 75 FC-T** for fluidcontrol-terminal -7x /-8x
 -For more details of technical data see data sheet de 10 0075 -



1. Select basic version: display only or with one alarm output or with two alarm outputs.
2. Select level contacts: type (single contact or change over) and number, add. requested position L1 - L3 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, **2** for 250mm, **3** for 370mm or **5** for 520mm.

Attention! Please note that the length L of Nivovent and selected filling adapter must be the same!

5. All: replace **F** by respective letter **A** or **B** for required accessories as per table on right hand side.
6. If temperature output is to be pre-set indicate T1 and T2.

Nivotemp 75 FC-T	level contact ▶	1xNC/NO	2xNC/NO	3xNC/NO	1xchange over
	connector ▼				
display only ▶	S6	1075011LF	1075012LF	1075013LF	1075018LF
	2x M12	1075031LF	1075032LF	-	1075038LF
with one alarm output ▶	S6	1075111LF	1075112LF	-	-
	2x M12	1075131LF	1075132LF	-	-
with two alarm outputs ▶	S6	1075211LF	1075212LF	-	-
	2x M12	1075231LF	1075232LF	-	-

Accessories	
F=	Clogging indicator
A	NO
B	Yes

Order example Part-no with additional text:10751113A ; L1=60 NO, L2=120 NC ; T1=50°C

Level switch: **Nivovent 76 FC-T** for fluidcontrol-terminal -7x /-8x
 -For more details of technical data see data sheet de 10 0076 -



1. Select basic version: with level contacts or continuous level signal 4-20mA
2. Select 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, **2** for 250mm, **3** for 370mm or **5** for 520mm.

Attention! Please note that the length L of Nivovent and selected filling adapter must be the same!

5. All: replace **F** by respective letter **A** or **B** for required accessories as per table on right hand side.

Nivotemp 76 FC-T	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 (no easyjust)		
4-20mA temperature output ▶	S6		107616200LF	
	2x M12		107636200LF	

Accessories	
F=	Clogging indicator
A	NO
B	Yes

Order example Part-no with additional text: 1076112002A ; L1=60 NO

Level switch: **Nivovent 85 FC-T** for fluidcontrol-terminal -7x /-8x
 -For more details of technical data see data sheet de 10 0085 -



1. Select basic version: display only or with one alarm output or with two alarm outputs.
2. Select level contacts: type (single contact or change over) and number, add. requested position L1 - L3 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, **2** for 250mm, **3** for 370mm or **5** for 520mm.

Attention! Please note that the length L of Nivovent and selected filling adapter must be the same!

5. If temperature output is to be pre-set indicate T1 and T2.

Nivotemp 85	level contact ▶	1xNC/NO	2xNC/NO	3xNC/NO	1xchange over
	connector ▼				
display only ▶	S6	1085011LC	1085012LC	1085013LC	1085018LC
	2x M12	1085031LC	1085032LC	-	1085038LC
with one alarm output ▶	S6	1085111LC	1085112LC	-	-
	2x M12	1085131LC	1085132LC	-	-
with two alarm outputs ▶	S6	1085211LC	1085212LC	-	-
	2x M12	1085231LC	1085232LC	-	-

Order example Part-no. with additional text:10851122C ; L1=60 NO, L2=120 NC ; T1=50°C