

GENERAL CHARACTERISTICS

The principle of operation of these instruments is based on the drive of one or more magnetic reed contacts, placed inside of the measuring rod, by one or more floats. The only moving element is the float that moves, for buoyancy, along the measuring rod, this guarantees extreme robustness and a limited need for maintenance.



- PVC – PP – PVDF**
- Up to 6 switch points.
- Up to 5 m length depending on the used float.
- Working pressure up to 6 bars.
- Operating ambient temperature -30/+55°C UR 90%
- Standard working temperature up to 130°C.
- Minimum degree of protection IP65
- Built-in temperature sensors, on request.
PT – PTC – NTC – Thermostat.
- ATEX Ex Executions (See Multipoint E – Multipoint I series)



FLOATS

Tab.1

F20 Ø20x25	F25 Ø25x25	F49 Ø49x53	P20 Ø20x25	P49 Ø49x53	V49 Ø49x53

Material	PVDF			PP - Polypropylene			PVC	
	0,7	0,65	0,8	0,5	0,45	0,7	4	7
Contact type	3	7D	3	7D	4	7	3	7D
Max N. of contacts	6	4	6	6	6	6	4	6
Max. bar			6		3		6	
Max. °C - Class	N = 130°C			D = 90°C			B = 60°C	

ELECTRICAL CONTACTS

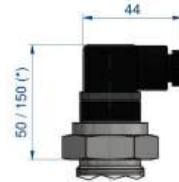
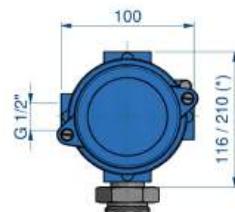
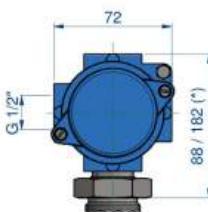
Tab.2

TYPE	VA	POWER	W	VOLTAGE		CURRENT	
				AC	DC	AC	DC
SPST	3	70	50	300	350	0,5	0,7
SPST	4	80	80	250	250	1,3	1,3
SPDT	7	60	60	230	230	1	1
SPDT	7D	20	20	150	150	0,5	0,5

ELECTRICAL OUTPUT

Tab.3

W1 IP65 Housing	W2 IP65 Housing	S1 – S2 DIN IP65 Plug	C1 – C2 – T1 Cable – Leads	P1 – P2 Cable-gland
Max. 5 terminals	Max. 18 terminals	S1 DIN43650 29x29 S2 DIN43650 15x15	C1 Cable C2 Cable T1 Leads	L = 1,5m L = 3,0m L = 1,5m



PROCESS CONNECTIONS

Tab.4

Installation from inside C-P-T output				Float type	Installation from outside – available thread and flanges					
06 1/8"	08 1/4"	10 3/8"	15 1/2"		20 3/4"	25 1"	32 1 1/4"	50 2"	F..HX Flange	DN Flange
All type of floats				F20	G-C-N	G-C-N	-	-	•	-
All type of thread				F25	-	G-C-N	G-C-N	-	•	•
				F49	-	-	-	G-C-N	-	•
				P20	G-C-N	G-C-N	-	-	•	-
				P49	-	-	-	G-C-N	-	•
				V49	-	-	-	G-C-N	-	•

Male thread

G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

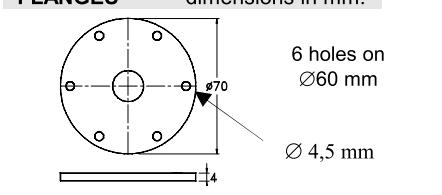
Available materials

V	P	F	S
PVC	PP	PVDF	AISI-316
On request			

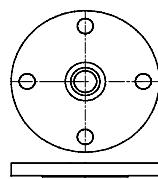
DN - Available materials

V	S
PVC	AISI-316
On request	

FLANGES dimensions in mm.



FVHX - FPHX - FFHX - FSHX



DN = UNI - DIN - ANSI Flanges

WIRING

Tab.5

I	Independent	Separately wired contacts	1	NO
C	Common	Common wired contacts	2	NC
S	Custom	Contacts wired on customer request	3	SPDT

Contacts status
in no level conditions

A Flanged connection

A1 Threaded connection

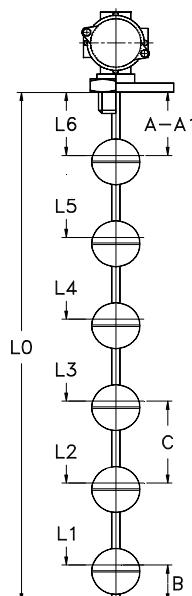
SWITCH POINTS

Tab.6

The switch points L1 ÷ L6 are measured from the stop of the fitting or flange connection.
General tolerances on switch points ± 3 mm.

Minimum distance in mm.

	F20	F25	F49	P20	P49	V49
A	20	20	40	20	40	40
A1	35	35	60	35	60	60
B	25	25	40	25	40	40
C	50	50	80	50	80	80
Contact type	3	7D	3	7D	4	7
Max. N. of contacts	6	4	6	6	4	6



OPTION – Built-in temperature sensor

On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

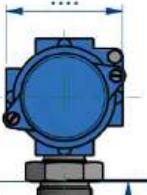
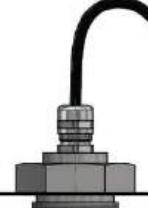
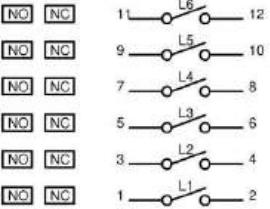
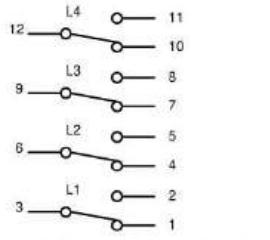
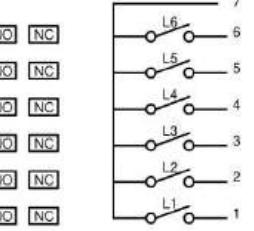
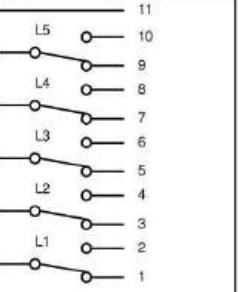
PT100 – PT1000	PTC	NTC	TRM (Thermostat)
EN 60751 – IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	40°C ÷ 120°C - 10°C step
Class B – (Class A on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 10°C± 4°C

NOMENCLATURE

M2	V49	4	1300	V	50	G	V	W1	B	I22	L1÷L6		
•												Number of contacts S1 / M2+M6	
	•											Tab.1	Float
		•										Tab.2	Electrical contact
			•									-	Total length = L0 in mm. (See drawing)
				•								Tab.4	Rod material
					•							Tab.4	Process connection dimension
						•						Tab.4	Process connection thread
							•					Tab.4	Process connection material
								•				Tab.3	Electrical output
									•			Tab.1	Temperature class
										•		Tab.5	Wiring and contact status
											•	Tab.6	Switch points (mm)

MULTIPOINT VF

Request form

External mounting		Internal mounting	
			
Electrical housing IP 65 W1 max. 5 terminals 70mm W2 max. 18 terminals 100mm	Plug DIN 43650 29x29 or 15x15 Max 3 terminals	P1 Cable-gland IP68 P2 Cable-gland IP67 L cable.....mm	Cable or Leads L.....mm
			
<p>Liquid under control:</p> <p>Specific gravity:</p> <p>Maximum pressure:</p> <p>Maximum temperature:</p>			
<p>Process connection:</p> <p><input type="checkbox"/> Threaded: <input type="checkbox"/> Flanged:</p>			
<p>Material:</p> <p><input type="checkbox"/> Brass <input type="checkbox"/> AISI-316 <input type="checkbox"/> PVC <input type="checkbox"/> PP <input type="checkbox"/> PVDF</p>			
<p>Wirings:</p> <p><input type="checkbox"/> Independent contacts NO or NC (Max. 6 contacts) <input type="checkbox"/> Independent SPDT contacts (Max. 4 contacts)</p>   <p><input type="checkbox"/> Common wired NO or NC (Max. 6 contacts) <input type="checkbox"/> Common wired SPDT contacts (Max. 5 contacts)</p>  			
Total length L0 (mm)			