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 Executions (See Multipoint E – Multipoint I series)

FLOATS Tab.1

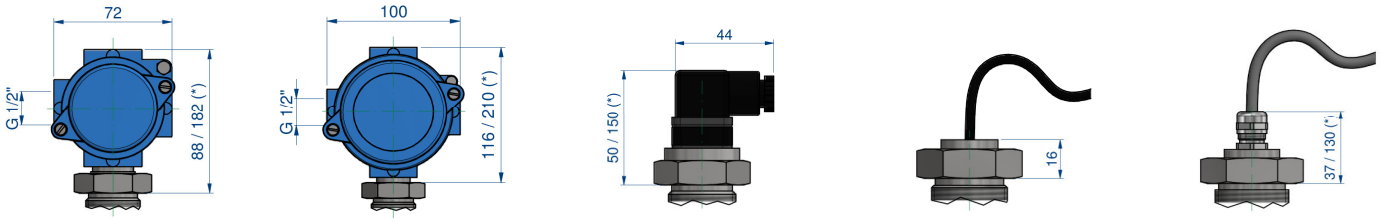
	F20 ∅20x25	**F25** ∅25x25	**F49** ∅49x53	**P20** ∅20x25	**P49** ∅49x53	**V49** ∅49x53
Material	PVDF			PP - Polypropylene		PVC
Specific gravity	0,7	0,65	0,8	0,5	0,45	0,7
Contact type	**3** **7D**	**3** **7D**	**4** **7**	**3** **7D**	**4** **7**	**4** **7**
Max N. of contacts	6 4	6	6	6 4	6	6
Max. bar	6			3		6
Max. °C - Class	**N** = 130°C			**D** = 90°C		**B** = 60°C

ELECTRICAL CONTACTS Tab.2

TYPE		**POWER**		**VOLTAGE**		**CURRENT**	
		VA	**W**	**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 L =1,5m C2 Cable L= 3,0m T1 Leads L= 1,5m	P1 Brass IP68 P2 Polyamide IP67



PRC Technologies Corp., Ltd. ลาดพร้าว 101 กรุงเทพ 10240
โทรศัพท์ : 02 530 1714, 02 932 1711 มือถือ : 086 360 8600
อีเมล : contact@prctech.net LINE ID1 : prctec-info, LINE ID2 : @prctec

PROCESS CONNECTIONS Tab.4

Installation from inside C– P–T output				Float type	Installation from outside – available thread and flanges					
06	08	10	15		20	25	32	50	F..HX	DN
1/8“	1/4“	3/8“	1/2“		3/4“	1”	1¼”	2”	Flange	Flange
All type of floats All type of thread				F20	G-C-N	G-C-N	-	-	●	-
				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	Conical	Conical
UNI 228/1	UNI 7/1	NPT

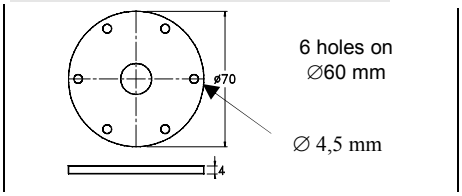
Available materials

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

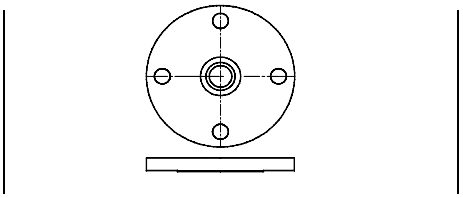
DN - Available materials

V	S
PVC	AISI-316
	On request

FLANGES dimensions in mm.



FVHX - FPHX - FFHX - FSHX

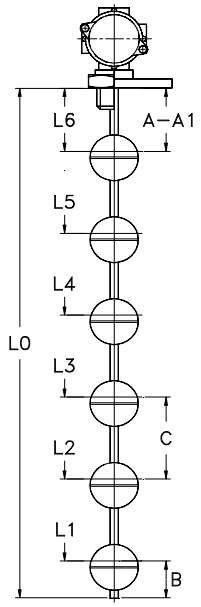


DN = UNI – DIN – ANSI Flanges

WIRING Tab.5

I	Independent	Separately wired contacts	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on customer request	3	SPDT	

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	3	7D	4	7	4	7
Max. N. of contacts	6	4	6		6		6	4	6		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

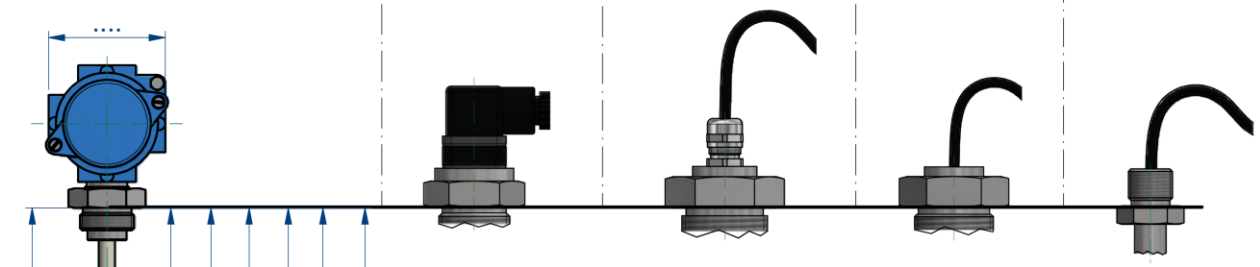
M2	V49	4	1300	V	50	G	V	W1	B	I22	L1÷L6		
●													Number of contacts S1 / M2÷M6
	●											Tab.1	Float
		●										Tab.2	Electrical contact
			●									-	Total length = L0 in mm. (See drawing)
				●								Tab.4	Rod material
					●							Tab.4	Process connection dimension
						●						Tab.4	Process 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)

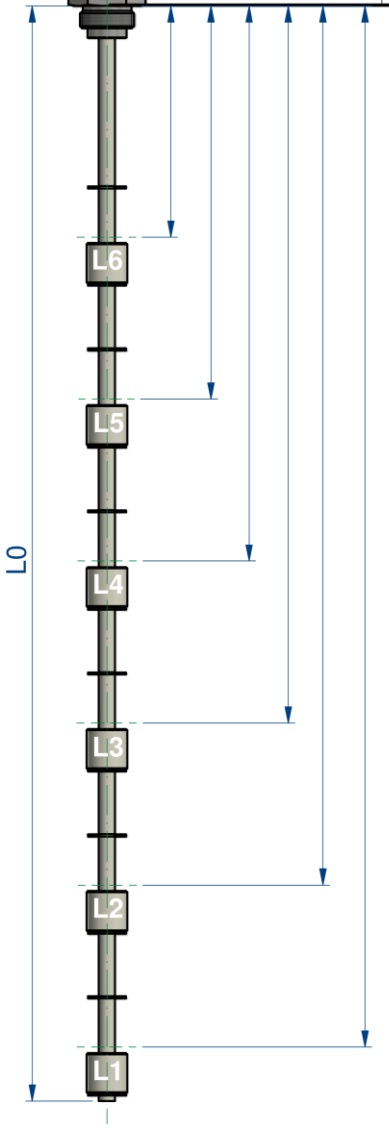
MULTIPOINT VF

Request form

External mounting | Internal mounting

W1 W2	S1 S2	P1 P2	C T	C
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	Only internal mounting Cable L.....mm





Total length
L0 (mm) .....

Liquid under control: .....

Specific gravity: .....

Maximum pressure: .....

Maximum temperature: .....

Process connection:

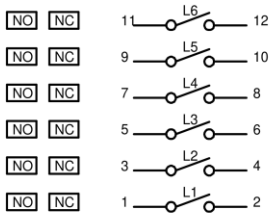
☐ Threaded: ..... ☐ Flanged: .....

Material:

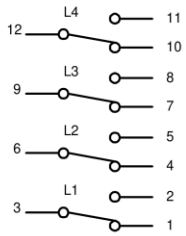
☐ Brass ☐ AISI-316 ☐ PVC ☐ PP ☐ PVDF

Wirings:

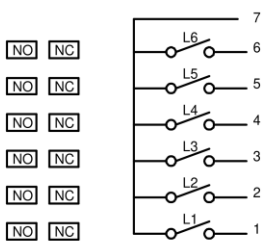
☐ Independent contacts NO or NC (Max. 6 contacts)



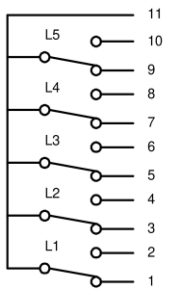
☐ Independent SPDT contacts (Max. 4 contacts)



☐ Common wired NO or NC (Max. 6 contacts)



☐ Common wired SPDT contacts (Max. 5 contacts)



PRC Technologies Corp., Ltd. ลาดพร้าว 101 กรุงเทพ 10240

โทรศัพท์ : 02 530 1714, 02 932 1711 มือถือ : 086 360 8600

อีเมล : contact@prctech.net LINE ID1 : prctec-info, LINE ID2 : @prctec