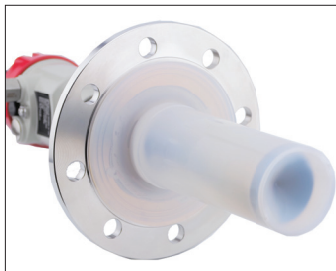


RADAR LEVEL METER for CORROSIVE LIQUID RM-902T



LCD display

Config button

Features

- For storage tanks, in corrosive or aggressive media
- Up to 20 meters measuring range
- Beam angle is small energy concentration
- High-quality waterproof connector
- Pulse work launch frequency of low impact on people and the environment

Technical Data

Application : Slightly corrosive liquid, volatile liquid tank
Measuring Range : 0...5/10/15/20 m
Accuracy : ±5 mm (within 0.5...20 m)
Resolution : 1 mm
Beam angle : 14°
Blind area : The ends of the antenna
Frequency Range : 26 GHz
Process perature : -40...+130°C (PVDF), -40...+250°C (PFA)
Process Pressure : -1...20 barg
Process Connection : Flange DN80 or Flange DN100
Antenna material : PVDF or PFA (see on page 3)
Flange material : 304 Stainless steel
Head material : Aluminum
Signal output : 4...20 mA (2-wire), 4...20mA (4-wire), RS485 (option)
Power supply : 24 Vdc
Power consumption : Max. 22.5 mA / 1 W
Protection class : IP67

Application



Corrosive liquid



Volatile liquid

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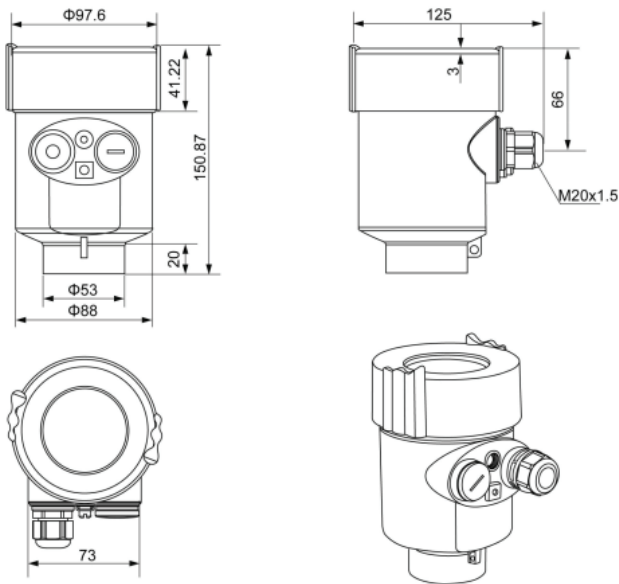
RADAR LEVEL METER for CORROSIVE LIQUID

RM-902T

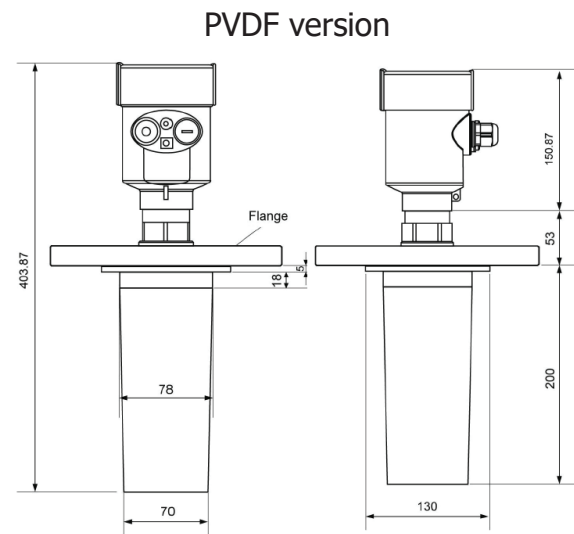
Drawing and dimension

Unit : mm

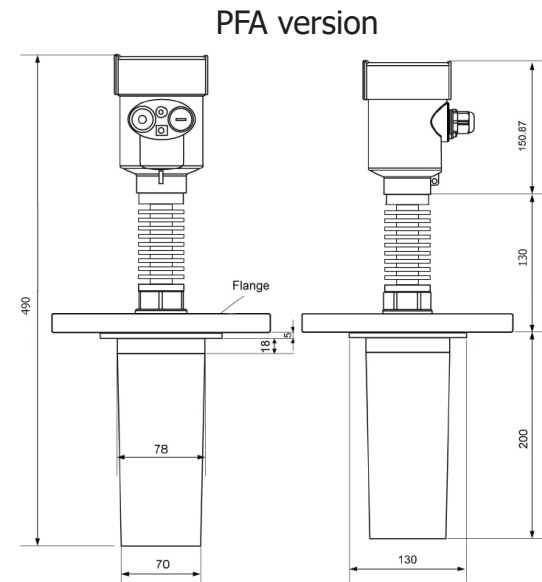
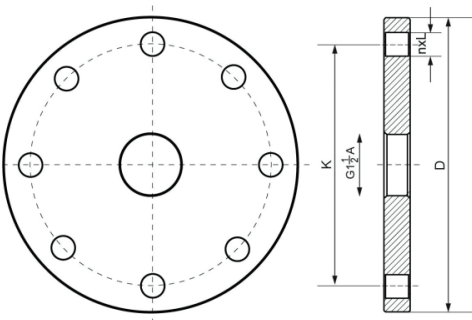
● **Head dimension**



● **Appearance size**



● **Flange dimension**



Flange Selection Tables				
Specification	Outer diameter (D)	Hole center distance (K)	Number of Hole (n)	Hole diameter (L)
DN80	Φ200	Φ160	8	18
DN100	Φ220	Φ180	8	18

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RADAR LEVEL METER for CORROSIVE LIQUID RM-902T

Operating condition

Operating pressure	Temperature resistance (°C)	
	PVDF (Polyvinylidene Fluoride)	PFA (Perfluoroalkoxy Alkane)
0.1 MPa (1 bar)	140	250
0.2 MPa (2 bar)	135	230
0.3 MPa (3 bar)	125	190
0.4 MPa (4 bar)	115	160
0.5 MPa (5 bar)	105	130
0.6 MPa (6 bar)	95	110
0.7 MPa (7 bar)	85	90
0.8 MPa (8 bar)	75	70
0.9 MPa (9 bar)	65	55
1.0 MPa (10 bar)	55	45
1.1 MPa (11 bar)	50	35
1.2 MPa (12 bar)	45	30
1.3 MPa (13 bar)	40	27
1.4 MPa (14 bar)	37	25
1.5 MPa (15 bar)	35	23
1.6 MPa (16 bar)	32	<i>not recommend*</i>
1.7 MPa (17 bar)	30	<i>not recommend*</i>
1.8 MPa (18 bar)	28	<i>not recommend*</i>
1.9 MPa (19 bar)	26	<i>not recommend*</i>
2.0 MPa (20 bar)	25	<i>not recommend*</i>

**if the product is used in these condition, it will be a cause of damage to product.*



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Type of Chemical resistance

Chemical group	List of chemicals	Level of resistance	
		PVDF (Polyvinylidene Fluoride)	PFA (Perfluoroalkoxy Alkane)
Acids	Hydrochloric acid (HCl)	A	A
	Sulfuric acid (H ₂ SO ₄)	A	A
	Nitric acid (HNO ₃)	B	A
	Hydrofluoric acid (HF)	A	A
	Phosphoric acid (H ₃ PO ₄)	A	A
	Acetic acid (CH ₃ COOH)	A	A
	Chromic acid (H ₂ CrO ₄)	A	A
Bases	Sodium Hydroxide (NaOH)	D	A
	Potassium Hydroxide (KOH)	D	A
	Ammonium Hydroxide (NH ₄ OH)	C	A
Solvent	Acetone	D	A
	Methyl Ethyl Ketone (MEK)	D	A
	Toluene / Xylene	B	A
	Methanol / Ethanol	A	A
	Chloroform	B	A
	Tetrahydrofuran(THF)	D	A
Halogen & Oxygen	Chlorine Gas (Dry/Wet)	A	A
	Sodium Hypochlorite	A	A
	Hydrogen Peroxide (H ₂ O ₂)	A	A
	Ozone	A	A
Others	Sodium Chloride	A	A
	Sea Water	A	A
	Benzene	B	A
	Diesel / Gasoline	A	A

Note :

- A = Excellent** : High resistance and no effect
- B = Good** : good resistance but there are oppotunities for swelling or color changing
- C = Fair** : limited resistance and no recommended for long term
- D = Poor/Severe** : Do not use it, there will be damaged

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RADAR LEVEL METER for CORROSIVE LIQUID RM-902T

Ordering Code

Series : RM-902T-X-X-X-X			
X : Level range			
5 : measuring range 0...5 m			
10 : measuring range 0...10 m			
15 : measuring range 0...15 m			
20 : measuring range 0...20 m			
X : Flange connection			
80 : DIN Flange PN16 DN80			
100 : DIN Flange PN16 DN100			
X : Signal output			
2A : 4-20 mA (2-wires)			
4A : 4-20 mA (4-wires)			
D : RS485			
X : Operating temperature			
PVDF : -40...+130°			
PFA : -40...+250°C			

Example : RM-902T-10-100-2A-PFA

Radar level meter range 0...10 m, Flange connection DN100 , Signal output 4-20mA (2-wire), operating temperature -40...+250°C, PFA antenna

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