

REINMEER

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RM-MVRP SERIES

RADAR LEVEL TRANSMITTER

 [Data sheet](#)

4-20 mA / RS485 / Bluetooth

Radar Level Transmitter

MODEL RM-MVRP

REINMEER

Data sheet Model RM-MVRP

Application Areas

Cement and Construction
Food and Beverage
Chemical and Petrochemical
Mining and Minerals
Plastic and Granules
Agriculture and Grain Silos
Pharmaceuticals
Wastewater Treatment

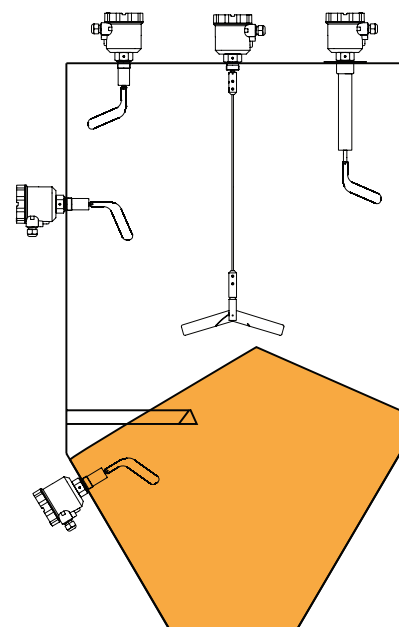
Features

- **Robust Construction:** Built with 304 stainless steel paddles and process connections for long-lasting durability.
- **Aluminum Housing:** Features a powder-coated aluminum body with an IP65 protection rating against dust and water.
- **Versatile Power:** Supports 110 VAC, 220 VAC, or 24 VDC power supplies to fit various industrial setups.
- **Reliable Detection:** Operates at a 5 rpm rotation speed to detect materials with a specific gravity over 0.5g/cm.
- **Signal Output:** Provides a standard SPDT contact output (5 A 250 VAC) for easy integration with control systems.
- **Operational Range:** Standard versions handle temperatures from -20 to +80 °C, with high-temperature (HT) versions available for extreme conditions.

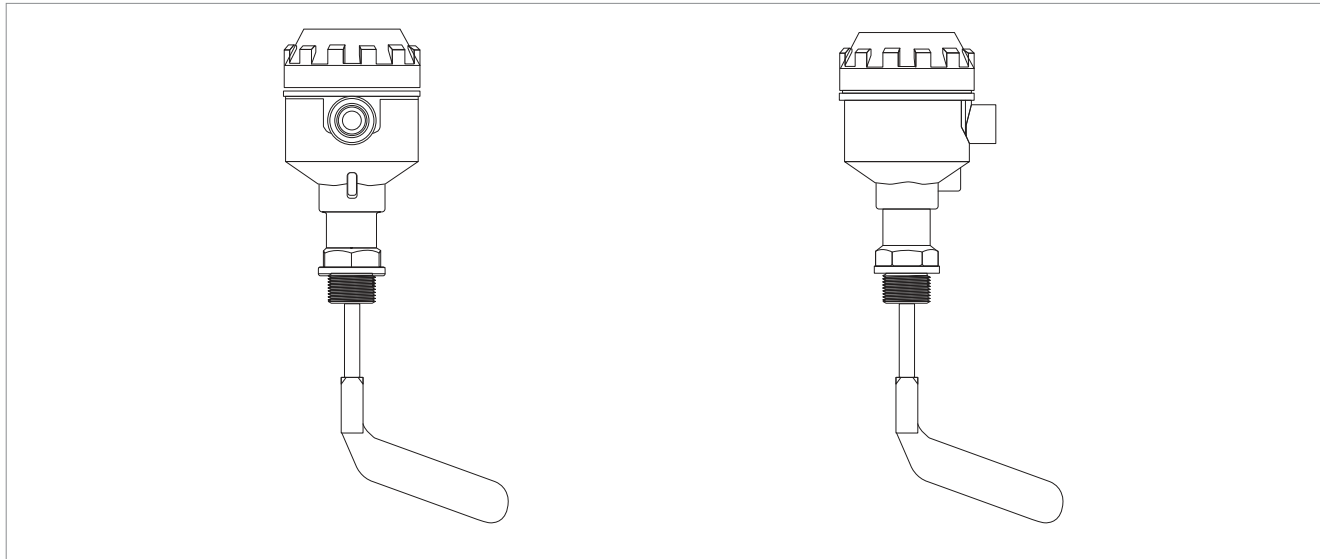
Description

The MVRP Series Motorized Level Switch by MV Instruments is a robust solution for level detection, featuring a powder-coated aluminum housing and durable 1.4301 stainless steel for both the paddle and process connections.

Designed to operate with a rotation speed of 5 rpm and a power consumption of 4W, this device is suitable for materials with a specific gravity greater than 0.5g/cm. It offers versatile installation options with various supply voltages (110 VAC, 220 VAC, or 24 VDC) and multiple paddle configurations, including Standard L-Type, V-Form, and Cross types to meet specific industrial needs. Additionally, the unit is rated IP65 for protection and can be configured for high-temperature environments.



Structure



TECHNICAL FEATURES

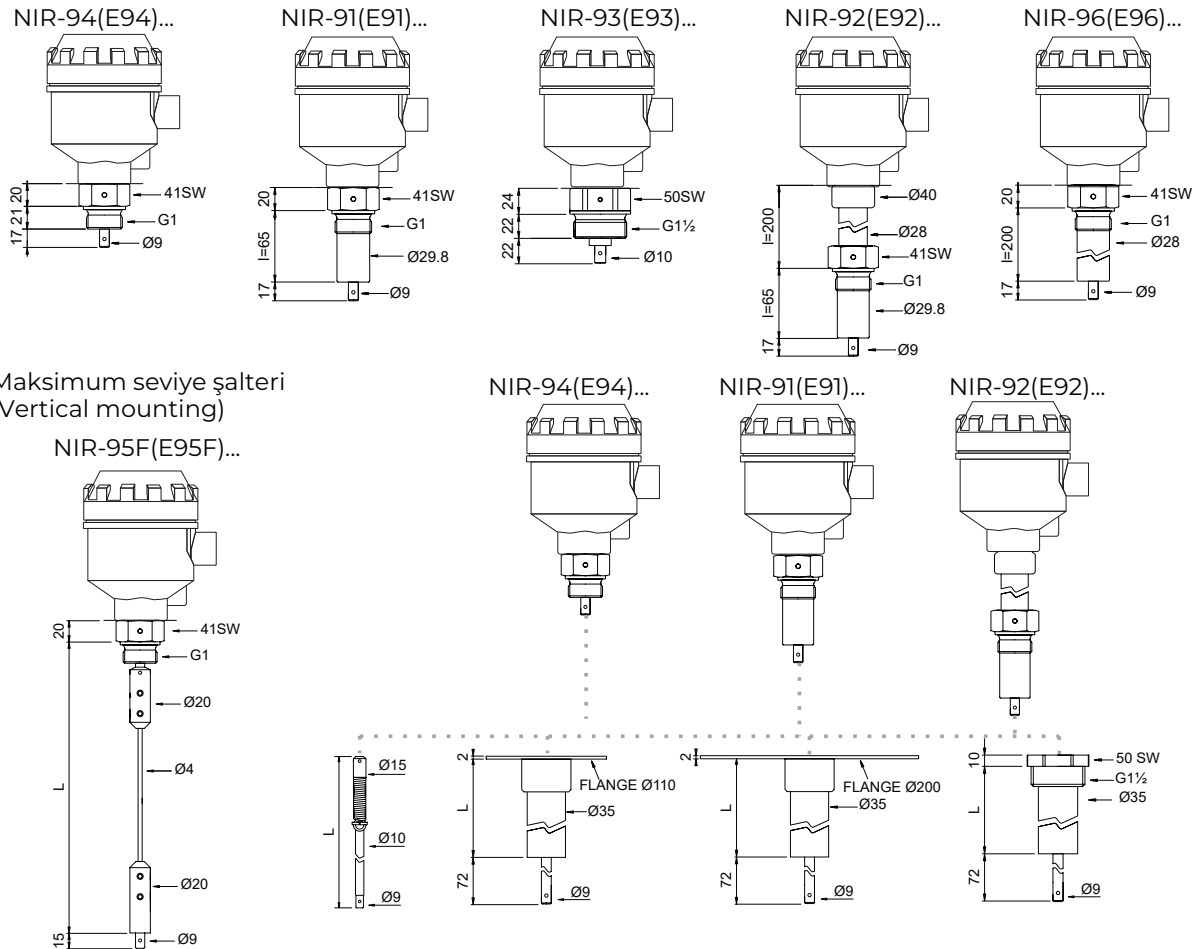
Paddle Material	1.4301 (304) Stainless Steel
Process Connection Material	1.4301 (304) Stainless Steel
Enclosure Material	Powder-coated Aluminum
Ambient Temperature	-20...+80 °C (Standard)
Specific Gravity	>0.5g/cm ³
Process Pressure	-0.5...+0.5 barg
Supply Voltage	110 VAC / 220 VAC / 24 VDC
Output Signal	1 x SPDT Contact (5 A 250 VAC)
Electrical Connection	2 x M20x1.5 Metal Glands
Rotation Speed	5 rpm
Protection Class	IP65

MODEL	CONNECTION TYPE	SUPPLY VOLTAGE	VERSION	PADDLE TYPE
MVRP	S1: 1" Male Thread	1A: 110 VAC	ST: Standard	V1: Standard L-Type
	30: G1 1/2" Male Thread	2A: 220 VAC		X1: V-Form
	31: Special Request	2D: 24 VDC	HT: High Temp	XX: Cross Type

Radar Level Transmitter

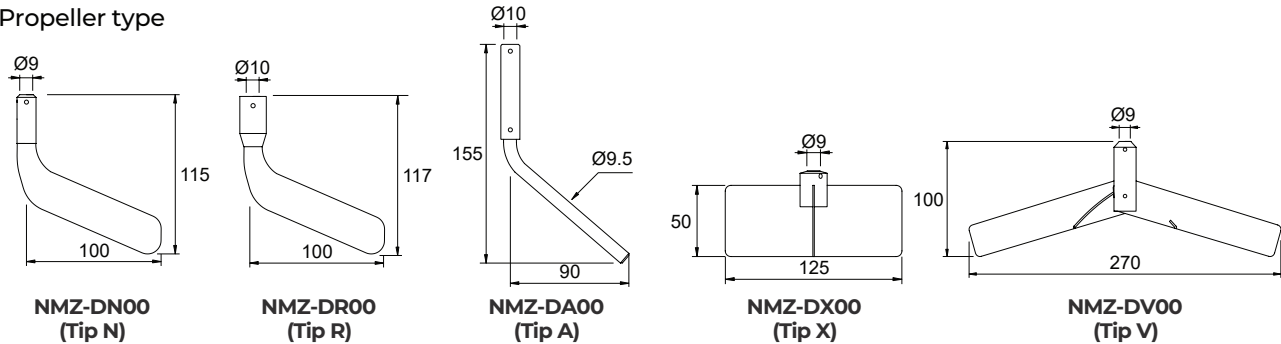
MODEL RM-MVRP

Data sheet Model RM-MVRP

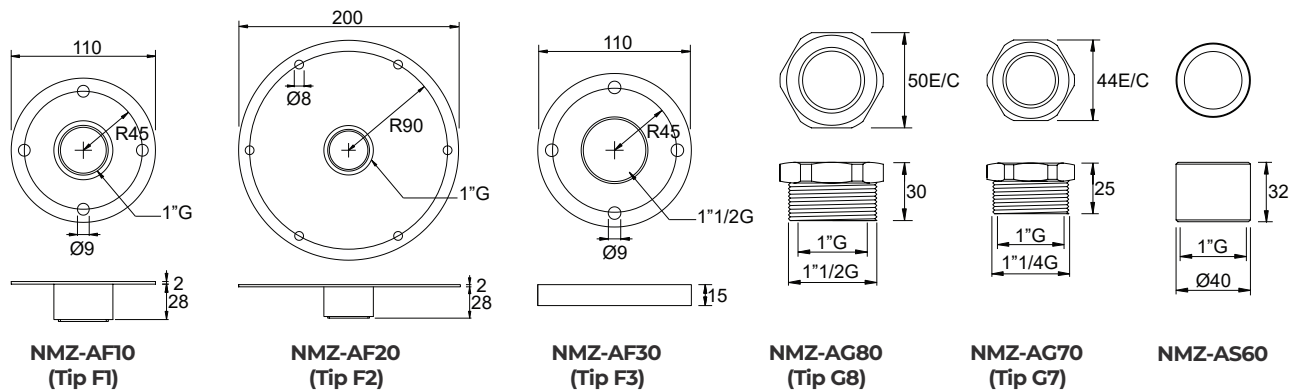


Model	Extension	Vane	Process connection	Supply Voltage	Option
NIR-91... NIR-E91... (ATEX) (Extension tube l = 65 mm)	0 = Without extension				
NIR-92... NIR-E92... (ATEX) (t _{max} : 200°C)	W ²⁾ = Extension without protective pipe (Up to 1500 mm)	0 = None	G6 = G1	0 = 230 V _{AC}	0 = None
NIR-94... NIR-E94... (ATEX) (Aluminum Thread)	L ¹⁾²⁾ = Extension without protective pipe (Up to 4000 mm)	N = Standard	G7 = G1½	4 = 110 V _{AC}	Y = Custom
NIR-95... NIR-E95... (ATEX) flexible cable	Y = Custom size	V = Foldable	G8 = G1½	2 = 24 V _{AC}	
NIR-96... NIR-E96... (ATEX) (Extension tubel = 200 mm)	F = Flexible cable max. 10 m	X = Cross (only with F2 link)	F1 = Flange 110 mm	5 = 48 V _{AC}	
	0 = Without extension	Y = Custom	F2 = Flange 200 mm	3 = 24 V _{DC}	
	2 = 200 mm		YY = Custom	Y = Custom	
	Y ²⁾ = Custom size				
NIR-93... NIR-E93... (ATEX) (Reinforced)	0 = None	0 = None	G8 = G1½		
		R = Reinforced	F3 = Flange 110 mm Reinforced G1½		
		A = Agregada			
		Y = Custom	YY = Custom		

Propeller type



Process connections



Accessories / Spare parts

Model		Option
NMZ-	A = Process connections	G7 = Stainless steel threaded adapter 1.4305, 1 ¼" GM-1"GF G8 = Stainless steel threaded adapter 1.4305, 1 ½" GM-1"GF F1 = Stainless steel flange 1.4305, Ø110 mm, 1"GF F2 = Paslanmaz çelik flanş 1.4305, Ø200 mm, 1"GF F3 = Reinforced stainless steel flange 1.4301, Ø110 mm, 1 ½"GF S6 = Stainless steel welding handle 1.4404, 1"G YY = None
	D = Propeller types	N0 = Standard stainless steel 1.4305 V0 = Foldable stainless steel 1.4305 X0 = Cross made of stainless steel 1.4305 R0 = Reinforced stainless steel 1.4305 A0 = Aggregate stainless steel 1.4305 YY = Custom
	E = Extension	L8 = Stainless steel protective tube 1.4301, G 1½ L1 = F1 flanged stainless steel protective pipe 1.4301 L2 = F2 flanged stainless steel protective pipe 1.4301 W1 = 1.4301 without stainless steel protective tube and flexible collar F1 = Ø 4 mm stainless steel flexible cable 1.4305 YY = Custom
		O = None Y = Custom

Contact us

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