

RADAR LEVEL TRANSMITTER

4–20 mA / RS485 / Bluetooth

ETRANS – MVRP Datasheet

Precise Measurement,
Ultimate Control

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Radar Level Transmitter

MODEL 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

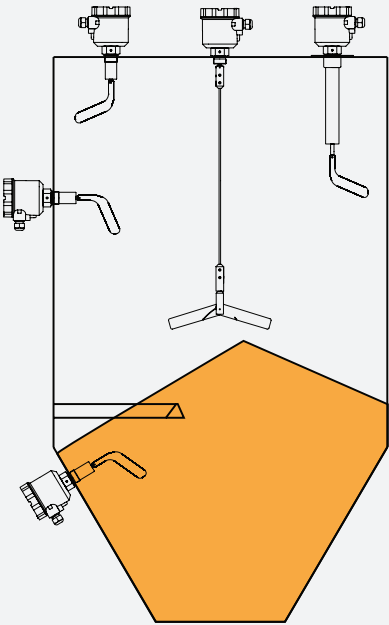
Features

- **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.

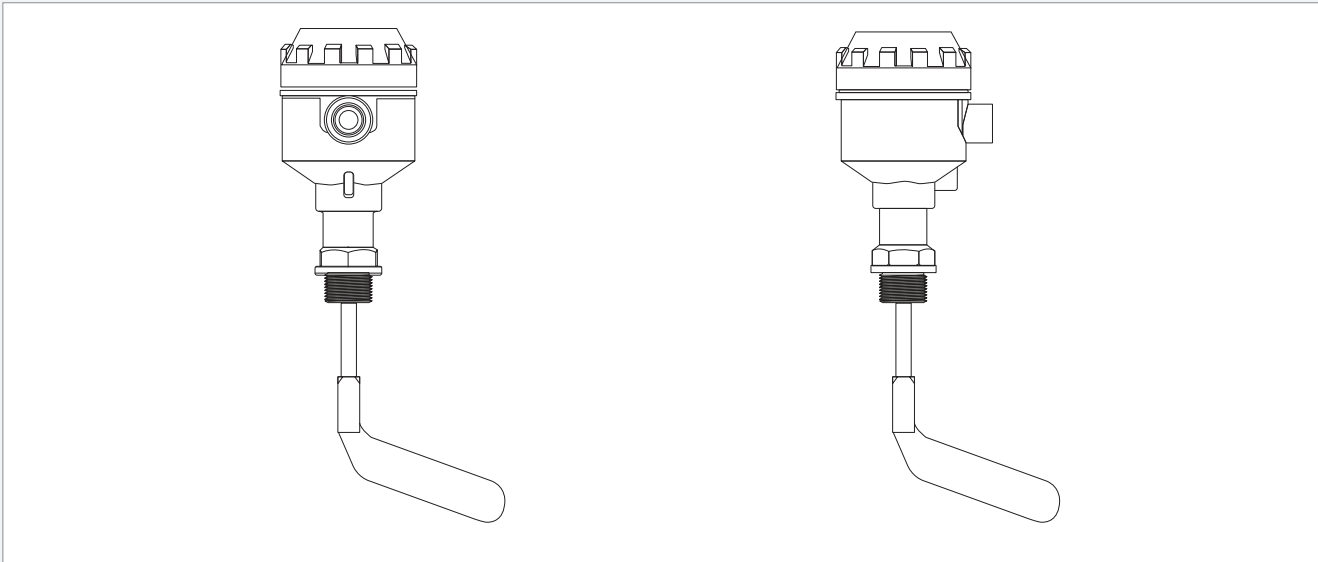
Description

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/cm3
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	VI: Standard L-Type
	30: G1 1/2" Male Thread	2A: 220 VAC		XI: V-Form
	31: Special Request	2D: 24 VDC	HT: High Temp	XX: Cross Type

Contact us

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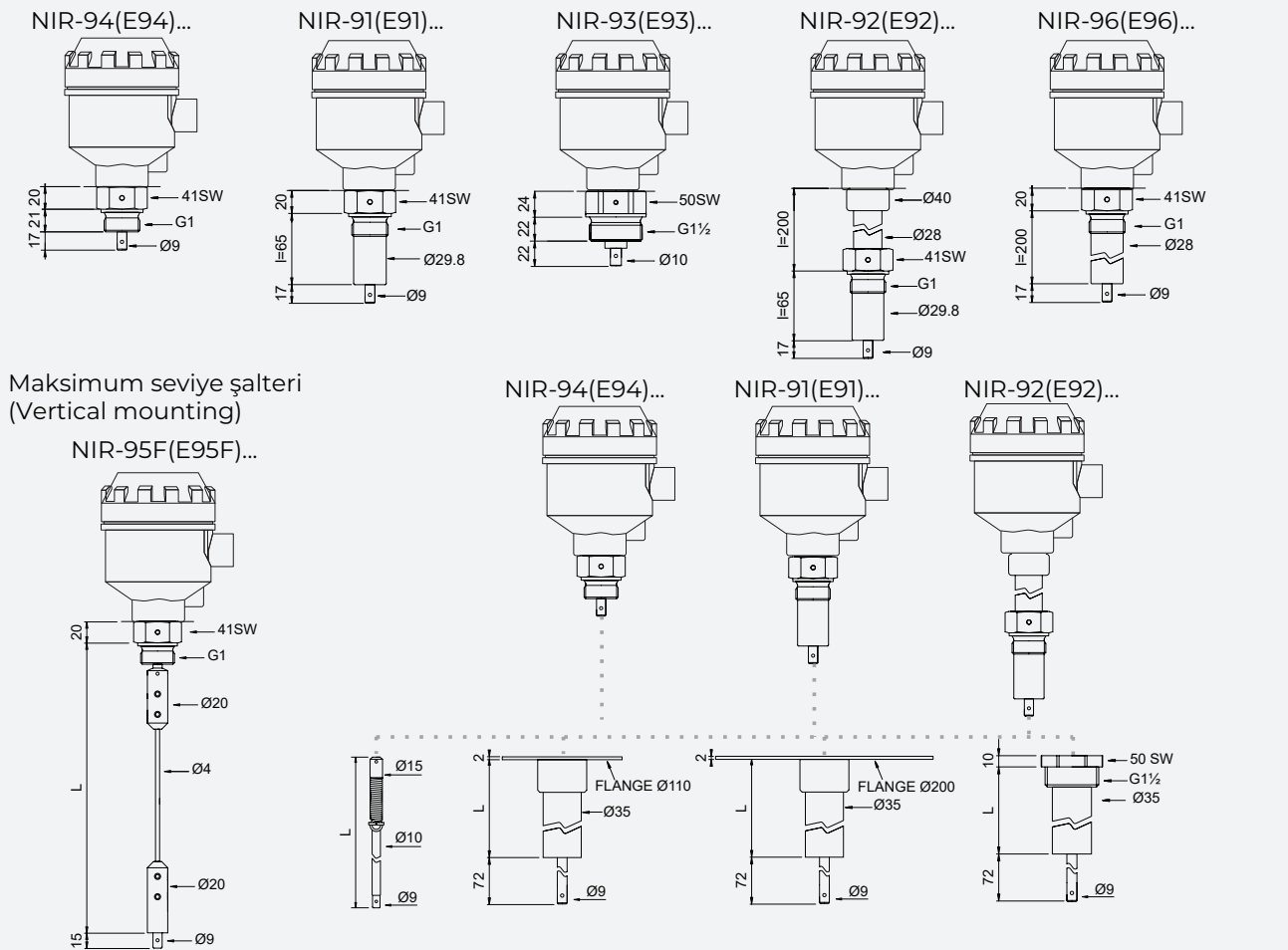
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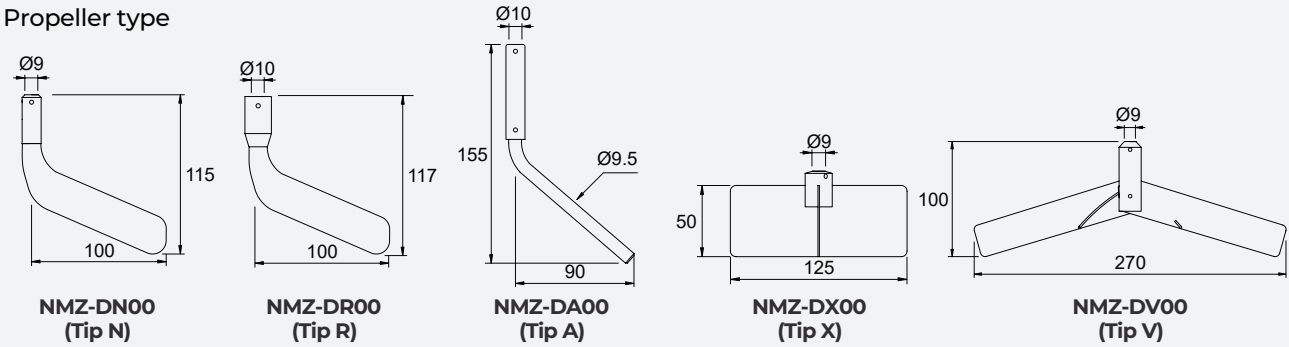
Radar Level Transmitter

MODEL MVRP

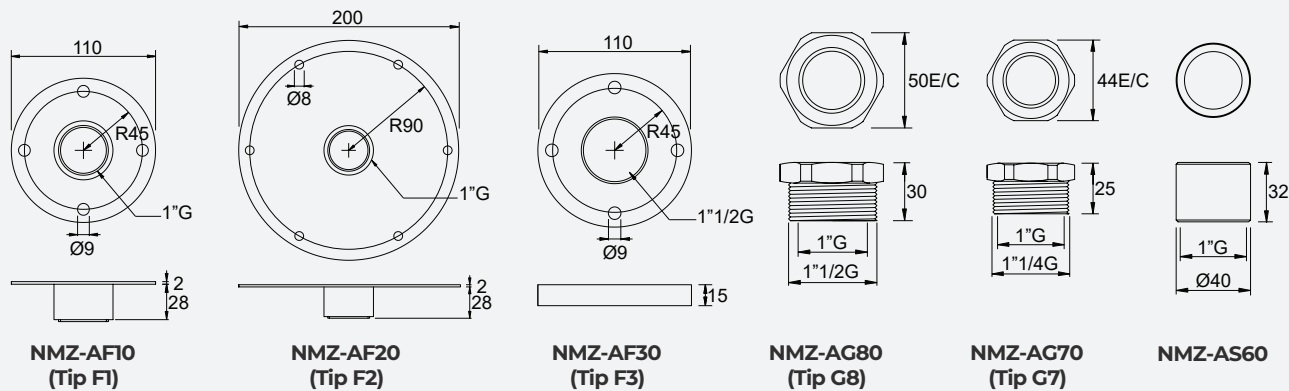


Model	Extension	Vane	Process connection	Supply Voltage	Option
NIR-91... NIR-E91... (ATEX) (Extension tube l = 65 mm)	0 = Without extension	O = None N = Standard V = Foldable X = Cross (only with F2 link) Y = Custom	G6 = G1	0 = 230 V _{AC} 4 = 110 V _{AC} 2 = 24 V _{AC} 5 = 48 V _{AC} 3 = 24 V _{DC} Y = Custom	O = None Y = Custom
NIR-92... NIR-E92... (ATEX) (t _{max} : 200°C)	W ²⁾ = Extension without protective pipe (Up to 1500 mm)		G7 = G1 1/4		
NIR-94... NIR-E94... (ATEX) (Aluminum Thread)	L ¹⁾²⁾ = Extension without protective pipe (Up to 4000 mm)		G8 = G1 1/2		
NIR-95... NIR-E95... (ATEX) flexible cable	F = Flexible cable max. 10 m		F1 = Flange 110 mm F2 = Flange 200 mm YY = Custom		
NIR-96... NIR-E96... (ATEX) (Extension tube l = 200 mm)	0 = Without extension	O = None R = Reinforced A = Agregada Y = Custom	G8 = G1 1/2 F3 = Flange 110 mm Reinforced G1 1/2		
	2 = 200 mm Y ²⁾ = Custom size				
NIR-93... NIR-E93... (ATEX) (Reinforced)	0 = None		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"G G8 = Stainless steel threaded adapter 1.4305, 1 ½" GM-1"G F1 = Stainless steel flange 1.4305, Ø110 mm, 1"G F2 = Paslanmaz çelik flanş 1.4305, Ø200 mm, 1"G F3 = Reinforced stainless steel flange 1.4301, Ø110 mm, 1 ½"G S6 = Stainless steel welding handle 1.4404, 1"G YY = None	O = None Y = Custom
	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	