



PM-021N



PM-021N-1

DESCRIPTION

- Control devices for detecting water level or other liquids in the 1 level and 2 levels by principle of conductivity
- Have button to adjust the sensitivity of the work. Suitable for detection fluids
- Can be select charging or discharging operation function
- LED display for power supply and show the relay function
- Compatible with Electrode Holder For Conductivity Level Control (Electrode rod)
- Socket Installation (PM-021 N) and DIN RAIL (PM-021 N-1)

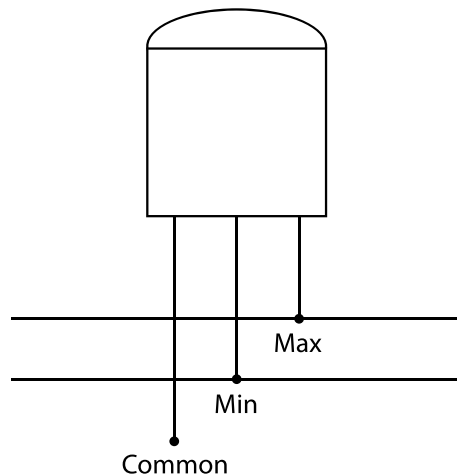
OPERATION

PM-021 N / PM-021N-1 will control the detection of water or other liquids. By connecting to the Electrode Holder For Conductivity Level Control (Electrode rod)

Charging operation When the water level is low (Min), the relay will operate. To order water pump pumping water into the water tank Until the water level reaches the maximum level (Max), the relay will stop. And when the water drops to the minimum level (Min), the relay will run again.

If the function is Discharging When the water level is full (Max), the relay will work to order the pump to pump out water from the water tank .Until the water level drops to (Min), the relay stops working

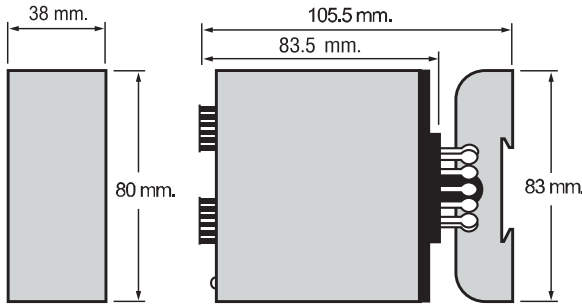
Application to control the opening and closing valve of the in-out water supply system. Using water as a conductor in the travel of electricity in the circuit. The Electrode bar consists of three bars: Common, Min, Max . By Min and Max will act as contact page to cut off the circuit to prevent damage to the pump or burn because of the empty pump.



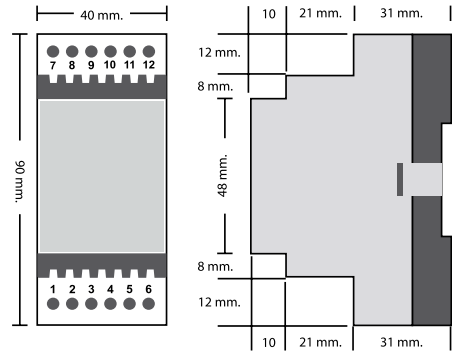
TECHNICAL SPECIFICATION

Model.	PM-021N	PM-021N-1
Power Supply	230 VAC ±15 % 50-60 Hz	
	115 VAC ±15 % 50-60 Hz	
	24 VAC/VDC	
Power Consumption	2 VA	
Display	Red LED (Power Supply Voltage)	
	Green LED (Working Relay)	
Voltage Detector	2 VAC, 50 Hz	
Current Detector	2 mA.	
Relay Contact	5 A / 250 VAC	
Probe	Standard 2 or 3	
Probe Size	Max. 100 M.	
Adjust Button	0 - 10 kΩ	
Ambient Operation	Temperature	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing
Ambient Storage	Temperature	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing
Protection Degree	IP50	
Installation	Socket	DIN RAIL
Material	ABS-V0	ABS-V0
Size	38 x 80 x 83.5mm.	40 x 90 x 62mm.
Weight	195 g.	175 g.

DIMENSION



PM-021N

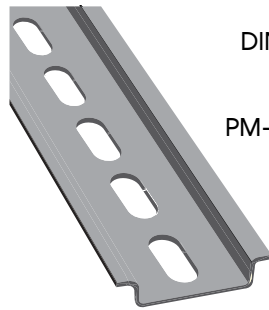


PM-021N-1

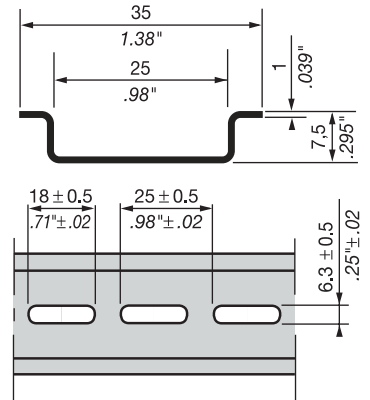
INSTALLATION



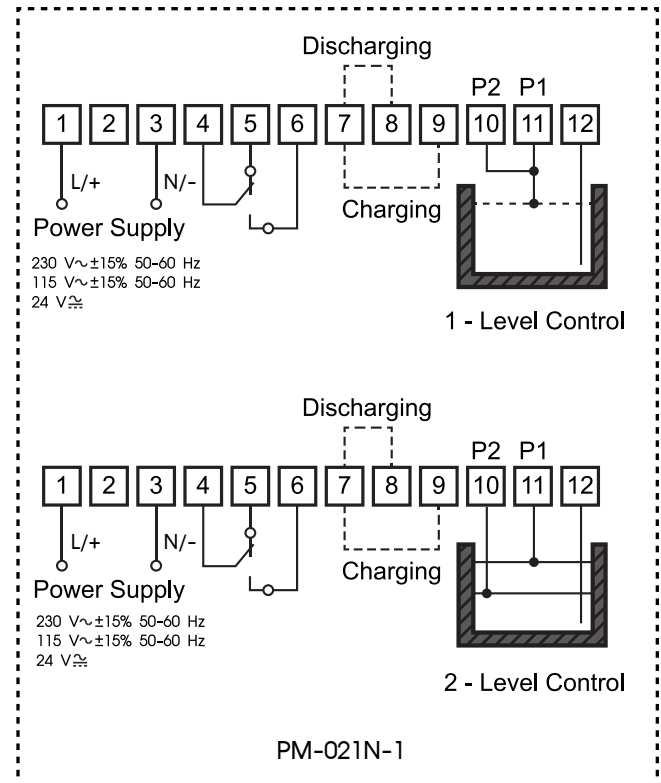
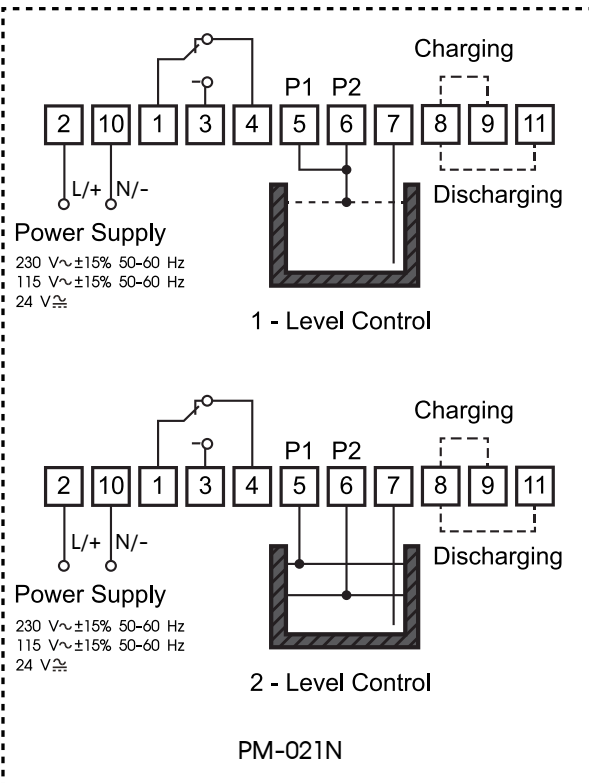
Socket for PM-021N



DIN RAIL
for
PM-021N-1



WIRING DIAGRAM

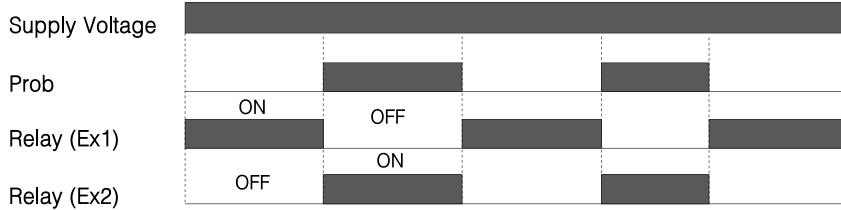


WARNING

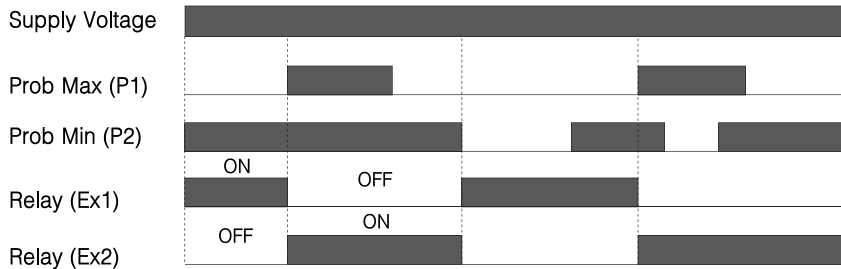
- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

OPERATING GRAPH

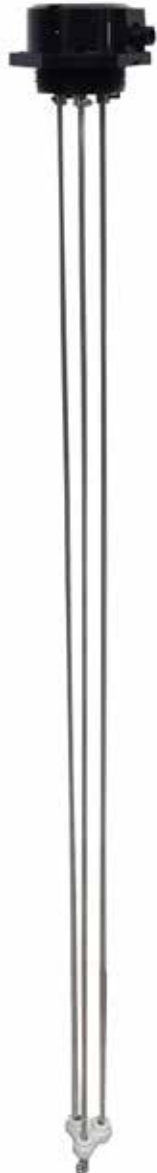
Ex 1 : Charging and Ex 2 : Discharging (1-Level Control)



Ex 1 : Charging and Ex 2 : Discharging (2-Level Control)



ACCESSORIES



PROPERTY

- 3-axis Electrode Bar Liquid Level Meter relies on conductivity principle with liquid As a medium
- can measure liquid level 2 levels (Min / Max)
- Can be used only with conductive liquids such as water, oil etc.
- Can be used in conjunction with PM-021N / PM-021N-1 (Level Control for Conductive Liquids)
- Suitable for installation on the top of the water tank, water tank etc.

EH-01-3P
ELECTRODE HOLDER



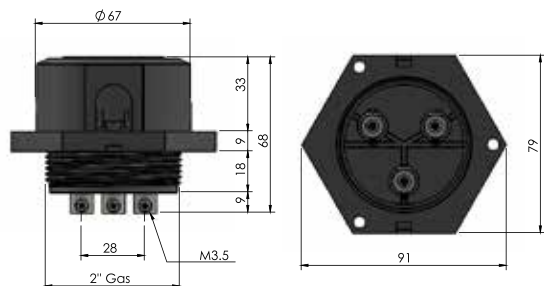
PROPERTY

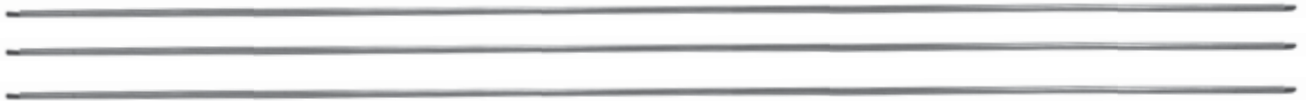
- Electrode Holder is a holder for Electrode bars 3-axis model
- Holder's material is made of ABS plastic and its materials
The thread is made of 15% ABS fiber plastic, resistant to corrosion. of chemicals and not rust

TECHNICAL SPECIFICATION

Model.		EH-01-3P
Connection with Electrode		3 Electrode
Material	Cover	ABS
	Thread	ABS Fiber 15%
Temperature Operation		0-70 °C
Size	Cover	Ø67mm.
	Thread	2" Gas
Weight		149g.

DIMENSION

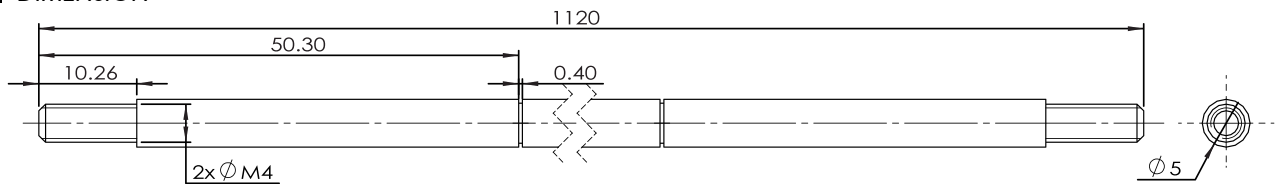


ACCESSORIES
ET-01-1M-SUS 304
ELECTRODE

TECHNICAL SPECIFICATION

Model.		ET-01-1M-SUS 304
Material		Stainless Steel (SUS 304)
Temperature Operation		0-70 °C
Size	Thread	M4 (4mm.)
	Tube	Ø5mm.
Weight		153.2g. (1Electrode)

PROPERTY

- Electrode bars have good electrical conductivity
- Material made from SUS 304, suitable for use with general liquid types
- The shape is a long, straight cylindrical shape with a screw on both ends.

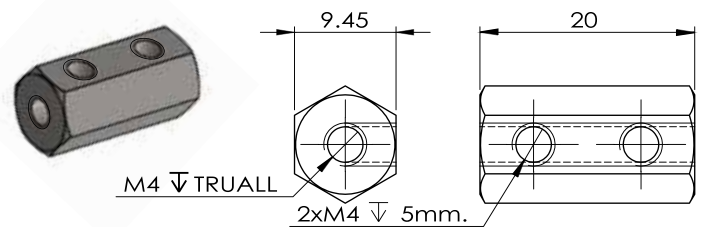
DIMENSION

EC-01-SUS 304
CONNECTOR

PROPERTY

- CONNECTOR is a device for connecting electrode bars 2 bars together In order to increase the length
- Material made from SUS 304, suitable for use with types General liquid

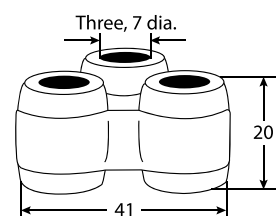
TECHNICAL SPECIFICATION

Model.		EC-01-SUS 304
Material		Stainless Steel (SUS 304)
Temperature Operation		0-70 °C
Size		9.45x20mm.
Weight		11.6g.

DIMENSION

F03-14-3P
SEPARATOR

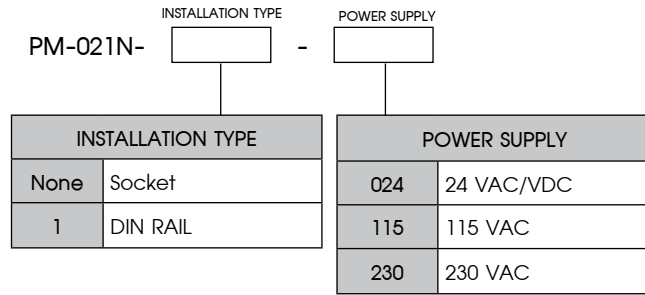
TECHNICAL SPECIFICATION

- Separator device is a device that prevents all 3 Electrode bars from touching each other to prevent short circuit in the system. Material made of ceramic High temperature resistance

DIMENSION


ORDERING CODE

■ LEVEL CONTROL FOR CONDUCTIVE LIQUIDS



ACCESSORIES

■ ELECTRODE HOLDER

EH-01-3P

■ ELECTRODE

ET-01-1M-SUS 304

■ CONNECTOR

EC-01-SUS 304

■ SEPARATOR

F03-14-3P