

# **Peristaltic Analog Dosing Pump USER MANUAL**

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### 2 Safety and Information

Please read following information carefully and completely. This information shall ensure that you benefit from operating instructions at optimum level.

These instructions define the functions of technical data.

#### 2.1 Explanation of Safety Warnings

These operating instructions give information about the technical data and functions of the product and provide detail safety information.

Safety warnings and notes are categorized as below. Pictographs are used here as adapted for different circumstances. These pictographs are only



#### **DANGER!**

##### **Type and source of danger**

**Result:** Death or severe injury.

Measures to be taken to prevent such danger.

##### **Danger!**

Defines the danger that creates the threat directly. Causes death or severe injury unless prevented.



#### **WARNING!**

##### **Type and source of danger**

**Possible Result:** Death or grave injury.

Measures to be taken to prevent such danger.

##### **Warning!**

Defines a possible dangerous situation. Causes death or grave injury unless prevented.



#### **CAUTION!**

##### **Type and source of danger**

**Possible Result:** Light or insignificant injuries. Material damage.

Measures to be taken to prevent such danger.

##### **Caution!**

Defines a possible dangerous situation. Causes light or insignificant injury unless prevented. Can also be used for material damage warning.



#### **NOTE!**

##### **Type and source of danger**

Causing damage to the product or individuals.

Measures to be taken to prevent such danger.

##### **Note!**

Defines a possible damaging action. Causes damage to the product or individuals unless prevented.

for example.



#### **INFORMATION!**

Operational tips and additional information

Source of information. Additional measures.

##### **Information!**

Defines operational tips and other useful information. Not given for a dangerous or harmful situation.

## 3 Introduction

### 3.1 General Safety Warnings



#### **WARNING!**

##### **Parts Under Electric Voltage!**

**Possible Result:** Death or grave injury.

Unplug from mains before opening the body.

Unplug damaged or broken devices from mains to make them off-circuit.



#### **WARNING!**

##### **Electronic Malfunctions!**

**Possible Result:** Material damage that might cause device to be damaged.

Device's electricity mains line shouldn't be set up on installation with damaged data line.

Operator is responsible for taking appropriate malfunction elimination measures.



#### **WARNING!**

##### **Mechanical Malfunctions!**

**Possible Result:** Material damage that might cause device to be damaged.

Oil the hose surface and reel surfaces of the device with silicon grease.

### 3.2 Function Description

#### **Short Description of Device Function:**

Peristaltic Dosage Pump has been developed for precise dosage of various chemicals in liquid form including low viscosity fluids.

The pump dispatches the chemical to be dosed from suction tank to the line to be dosed by means of reels that are

rotated by an electrical engine squeezing the pump hose.

#### **Typical Applications**

- Rinse aid and detergent dosing in washing machines.
- Pool water processing in private swimming pools.

#### **Standard Hardware**

- Turning On & Off Button
- Feeding Led.
- Flow setting pot
- Rapid button



#### **INFORMATION!**

Operational tips and additional information Source of information. Additional measures.

#### **Information!**

Flow setting pot can be used between minimum and maximum (by means of a screwdriver).

Rapid button operates the pump at maximum cycle without changing the flow setting pot as long as you keep pressing.

### 3.3 Standard Package Contents

#### **For Model A:**

Suction Line Set Per 4x6

Pumping Line Set Peristaltic 4x6

Assembly Set

2x Screws 3,5x35 YHB Chipboard Chrome

2x 7mm Pin

Hose Set

2x 2mt 4x6 Hose PVC

1x 3mt 4x6 Hose PE

#### **For Model R:**

Suction Line Set 4x6

## General Appearance and Assembly

Pumping Line Set Metal 4x6  
Assembly Set  
2x Screws 3,5x35 YHB Chipboard  
Chrome  
2x 7mm Pin  
Hose Set  
2x 2mt 4x6 Hose PVC  
1x 3mt 4x6 Hose PE

### For Model D:

Suction Line Set 4x6  
Pumping Line Set Peristaltic 4x6  
Assembly Set  
2x Screws 3,5x35 YSB Chipboard  
Chrome  
2x 7mm Pin  
Hose Set  
2x 2mt 4x6 Hose PVC  
1x 3mt 4x6 Hose PE

### 3.4 Technical Specifications

<b>Feeding*</b>	AC 230V 50-60 Hz	
<b>Body</b>	IP65	PP
<b>Unions</b>	PP	
<b>Protective Lid</b>	PC	
<b>Hose</b>	<b>Type A-D</b>	<b>Type R</b>
	Norprene 4,8x8	Silicone 3,2x6,4
<b>Operating Environment Temperature</b>	0-50°C	
<b>Chemical Temperature</b>	0-45°C	
<b>Product Weight</b>	644,50 gr	
<b>Package weight</b>	1061,40 gr	
<b>Dimensions</b>	101x171x102,70 mm	

## 4 General Appearance and Assembly

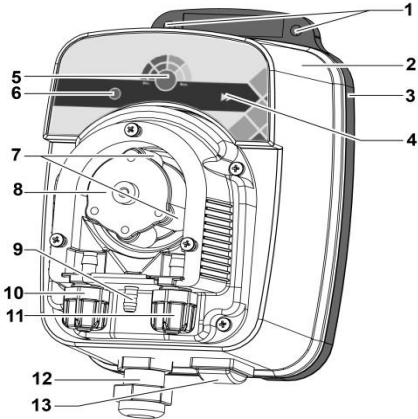


Image 16/General appearance of the device

- 1 Assembly Holes (Back Lid)
- 2 Body
- 3 Back Lid
- 4 Rapid button
- 5 Flow setting pot
- 6 Feeding Led
- 7 Reels
- 8 Rotor
- 9 Discharge Tip
- 10 Suction Side Hose Connection Union
- 11 Pumping Side Hose Connection Union
- 12 Feeding Cable Inlet
- 13 Turning On & Off Button

### 4.1 Mechanical Assembly



#### NOTE!

##### Assembly Site and Conditions

- Device meets IP65 protection and sealing if all seals and screws are placed correctly.
- Electrical assembly should be performed after mechanical assembly.
- Please choose a site that will lend easy access to control panel.
- Do not permit direct sunlight on the device.
- Operating environmental temperature:  $-0/+50^{\circ}\text{C}$  and 90% relative humidity (non-condensing)
- This device has been designed only for indoor use. Place it inside a panel to protect from external factors for outdoor use.



##### Assembly Position!

Device has been designed to be used with wall-type mount as a standard.  
Assemble the device with the cable inlet facing downwards all the time.  
Allocate sufficient space for cables and hoses.

#### 4.1.1 Pump Dimensions

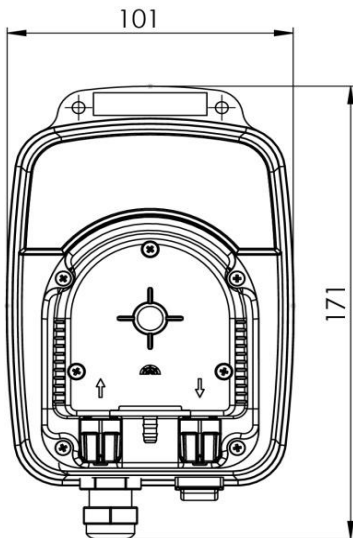


Image 17/Front View

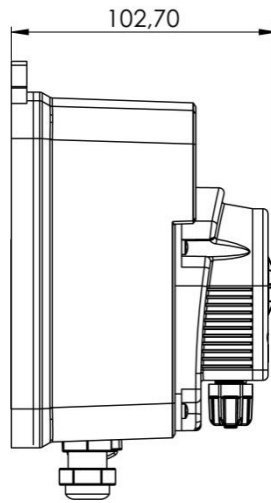


Image 18/Side View

## General Appearance and Assembly

### 4.1.2 Assembly Hole Dimensions

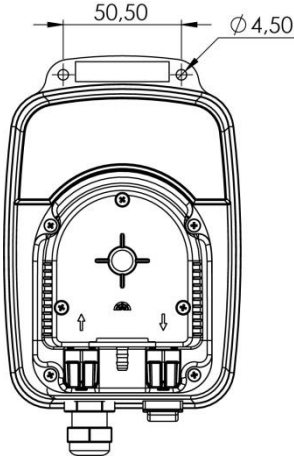


Image 19/Assembly Holes\_Cover

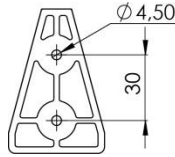


Image 20/Assembly  
Holes\_Hanging  
Apparatus

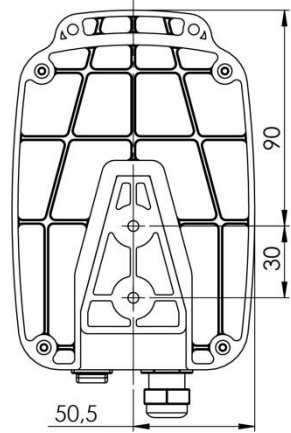


Image 21/Hanging Apparatus Position

- Drill Ø7mm √45mm assembly holes on the surface to be assembled based on the assembly holes on the hanging apparatus or cover.
- Nail the pins inside the slots.
- Fix the hanging apparatus or pump with 3,5X35 YSB screws.
- Dimensions are given in mm.

### 4.1.3 Electrical Assembly

See / Page: 3/ Section "Genel Güvenlik Uyarıları":3.1

Device operates with 230V 50-60Hz AC. Ends of the feeding cable are equipped with 0,75 mm isolated cable shoe.

You can assemble any board or electrical connection point.

## 5 Installation

### 5.1 General Installation

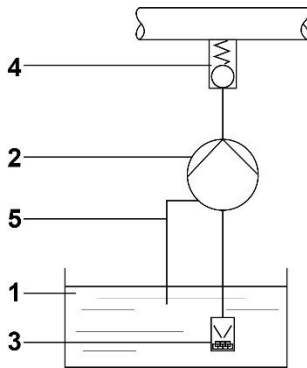


Image 22/Installation Diagram

- 6. Chemical Tank
- 7. Peristaltic Pump
- 8. Filtered Suction Line
- 9. Pumping Line
- 10. Pump Chemical Discharge

#### 5.1.1 Placing the Hoses

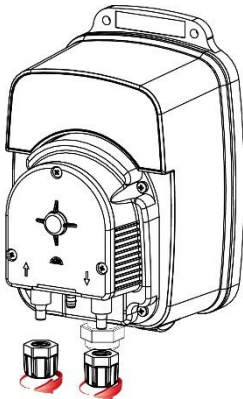


Image 23/Dismounting Unions

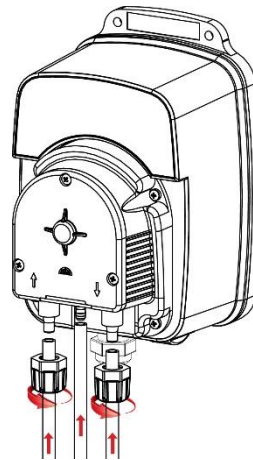


Image 24/Mounting Hoses

- Cut the tips of hose properly
- Turn and dismantle hose passage unions.
- Place PVC hose to chemical dosage pump inlet tip (suction tip) and discharge tip, and place PE hose to tip to enter the line (Pumping Tip) by sliding.
- Turn and tighten hose passage unions.
- Cut the excess of suction side of hose.
- Direct the hose that has been mounted on discharge tip towards the chemical tank.



## Maintenance, Repair and Malfunctions

### 6 Maintenance, Repair and Malfunctions



#### **WARNING!**

#### **Mechanical Malfunctions!**

**Possible Result:** Material damage that might cause device to be damaged.

Make sure that there is no clogging, adhesion or hose stiffening inside the pump hose before operating the pump after a long break.

#### **6.1 Maintenance**

##### Approximately/Every Three-Six Months

- Check whether suction line filter is clogged or not.
- Check whether suction and pumping hose unions have loosened or not.
- Check whether pump hose leaks or not.

##### Approximately/ Every Year

2. Replace pump dosage hose.



#### **Based on Chemical Used!**

The intervals of maintenance and hose replacement may vary based on the chemical to be dosed.

#### **6.2 Repair**

##### **6.2.1 Replacing Pump Hose**

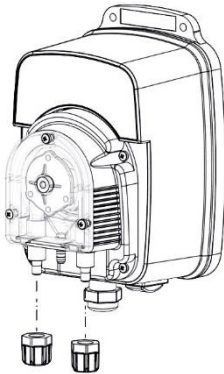


Image 25/ Dismounting Unions

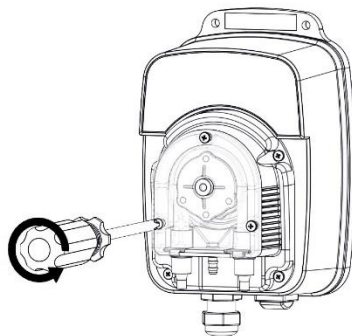


Image 26/Dismounting Protective Lid Screws

7. Dismount hose unions.

8. Dismount the screws on protective lid by screwdriver.

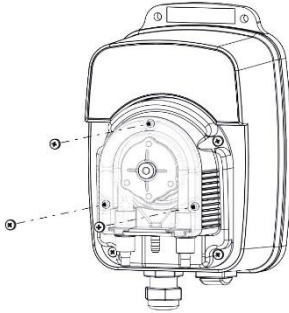


Image 27/Dismounting Protective Lid Screws

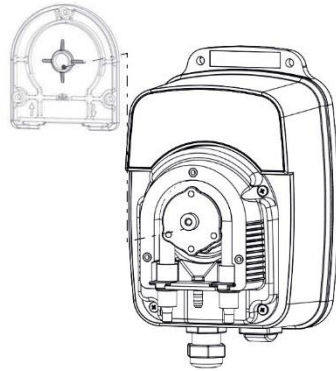


Image 28/Dismounting Protective Lid

9. Dismount 3 screws on the protective lid.

10. Take out the protective lid.

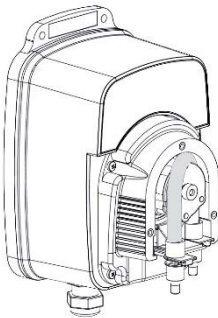


Image 29/Dismounting Hose Passage Union

11. Pull and take out the pump hose passage union on suction side.

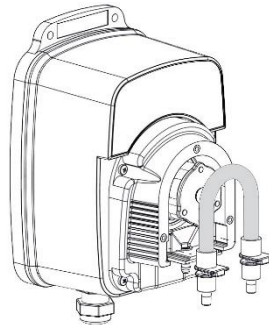


Image 30/Dismounting Hose

12. Pull and take out the pump hose passage union on pumping side.

**To fix the pump hose in place,**

5. Bring the pump to lowest flow setting.
6. Place the hose passage union on suction side.
7. Power the pump. In the meanwhile, direct the pump hose on reels and turn off the pump after 1 round.
8. Place the hose passage union on pumping side.



**While Placing the Pump Hose!**

Oil with silicon grease while placing the pump hose in place.