# PS-S(R)/-31

CSM\_PS-\_S(R)\_-31\_DS\_E\_7\_4

#### Separate Electrode Holders for Water Supply and Drainage Control in Buildings. Small, Lightweight Electrode Holders for Use as Built-in Components.

- The PS-□S(R) are separate Electrode Holders that allow the Electrodes to be withdrawn easily for inspection.
- The PS-□S(R) come in 3, 4, or 5 pole models for supply and drainage of tap water in buildings.
- PS-31 is a small and light-weight Electrode Holder that is suitable for installation in limited space and built-in components.

Refer to Safety Precautions for Electrodes and Electrode Holders.



## **Ordering Information**

#### **■** Electrode Holders

Application	Model	
General applications for purified water		
For 3-pole electrode	PS-3S	
For 3-pole electrode (2-wire)	PS-3SR	
For 4-pole electrode	PS-4S	
For 4-pole electrode (2-wire)	PS-4SR	
For 5-pole electrode	PS-5S	
For 5-pole electrode (2-wire)	PS-5SR	
For small energy (2 note)	PS-31 (SUS304, 300 mm)	
For small spaces (3-pole)	PS-31 (SUS304, 1,000 mm)	

## ■ Accessories (Order Separately)

Application	Model
Protective Cover (for PS-□S and BF-3/-5)	F03-11
Mounting Frame (for PS-□S)	F03-12
Mounting Frame for Installing in Concrete (for PS-□S(R))	F03-13
Dust-proof Rubber Cap (for PS-31)	F03-31

## **Specifications**

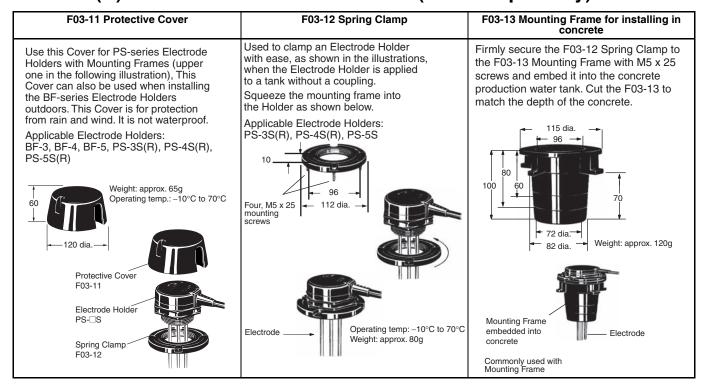
Item Model	PS-3S(R) (See note 1.)	PS-4S(R) (See note 1.)	PS-5S(R) (See note 1.)	PS-31 (See note 2.)
No. of Electrodes	3	4	5	3 (See note 3.)
Material	Resin (PBT = Polybutylene terephthalate)			
Insulation resistance	100 M $\Omega$ min.			
Operating temperature	-10 to 70°C (with no icing)			
Operating pressure	Atmospheric pressure			
Applications	Water supply and drainage control in buildings Limited Mounting Spa			Limited Mounting Space
Electrodes	Purchase F03-01 separately.			Single-piece construction

**Note: 1.** The Two-wire Electrode Holders (R models) have a built-in resistor of 6.8 k $\Omega$ . They should be used with the Two-wire 61F Controllers.

- 2. Cut the electrodes to the desired length.
- 3. PS-31 comes in a 3-pole model only.

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## ■ PS-□S(R) Electrode Holder Accessories (Order Separately)



Note: If the F03-11 and F03-12 are used together, the screws and bolts that are provided with the F03-11 cannot be used.

### ■ PS-31 Electrode Holder Accessories (Order Separately)



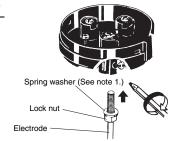
# ■ Accessories Required for Connecting the PS-□S(R) and Electrodes (Order Separately)

# Electrodes Shorter than 1 m

The following items are required for each pole.

- 1 × F03-01 Electrode
- 1 × F03-03 Lock Nut

The Electrode can be cut anywhere based on the control level.

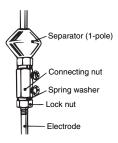


# Electrode Longer than 1 m

The following items are required for every additional meter of electrode for each pole.

- 1 × F03-01 Electrode
- 1 × F03-02 Connecting Nut
- 2 × F03-03 Lock Nuts

Use F03-14 1P, 3P, and 5P Separators to prevent the electrodes from touching each another.



- Note: 1. The spring washer comes with the lock nut.
  - 2. Refer to F03- Tor details on Electrodes, Connecting Nuts, Lock Nuts, and Separators.

## Mounting

## **■ PS-3S Electrode Holders**

Mounting Electrode Holder	2. Attaching Electrode(s) to Electrode section	Inserting Electrode section into Electrode Holder
Screw the Electrode Holder into the coupling secured at the installation location.	<ul> <li>Insert each Electrode into the connecting nut, secure the Electrode with the clamp screws, and then tighten the lock nut.</li> <li>Connect the leads, inserted through the hole of the rubber bushing, into the respective terminals.</li> </ul>	
Twin clockwise Electrode Holder  Coupling	Electrode section housing Rubber bushing Electrode	Drip-proof cover  Electrode section housing  Electrode Holder

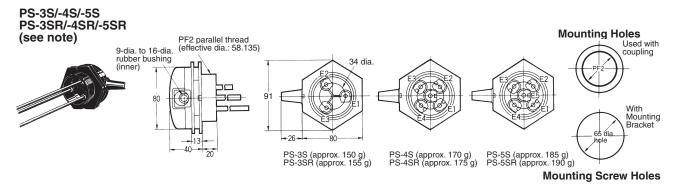
Note: 1. OMRON does not sell couplings.

2. Screw in the Electrode until it reaches the bottom of the nut. Insufficient insertion will cause a faulty connection.

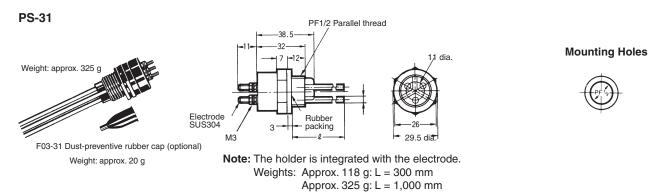
## **Dimensions**

Note: All units are in millimeters unless otherwise indicated.

#### **■** Electrode Holders



Note: The PS-3SR, PS-4SR, and PS-5SR have built-in resistor of 6.8  $k\Omega$  and used for the two-wire 61F models.



## ■ Safety Precautions

Refer to Safety Precautions for All Level Controllers.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527

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