# PS-S(R)/-31

CSM\_PS-\_S(R)\_-31\_DS\_E\_7\_3

#### 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- The PS-□S(R) are separate Electrode Holders that allow the Electrodes to be withdrawn easily for inspection.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 spaces (2 pale)	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**

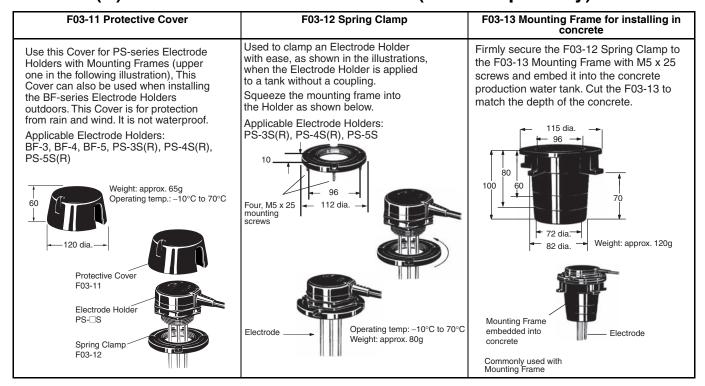
Item Model	PS-3S(R) (See note 1.)	PS-4S(R) (See note 1.)	PS-5S(R) (See note 1.)	PS-31 (See note 2.)
No. of Electrodes	3	4	5	3 (See note 3.)
Material	Resin (PBT = Polybutylene terephthalate)			
Insulation resistance	100 M $\Omega$ min.			
Operating temperature	-10 to 70°C (with no icing)			
Operating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

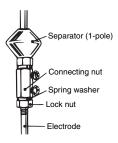


# Electrode Longer than 1 m

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>	<ul> <li>Fit the Electrode section into the Electrode Holder and secure it with the two screws.</li> <li>Check the Electrode section for proper wiring, fit the rubber bushing in position, and then cover the Electrode Holder with the dripproof cover.</li> </ul>
Twin clockwise Electrode Holder  Coupling	Electrode section housing  Rubber bushing  Electrode  Lock nut	Drip-proof cover  Electrode section housing  Electrode Holder

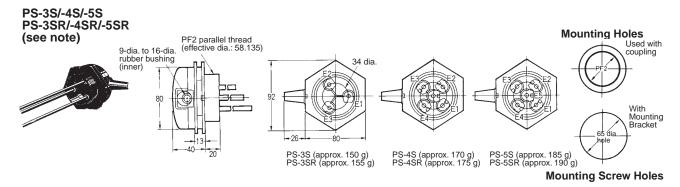
Note: 1. OMRON does not sell couplings.

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

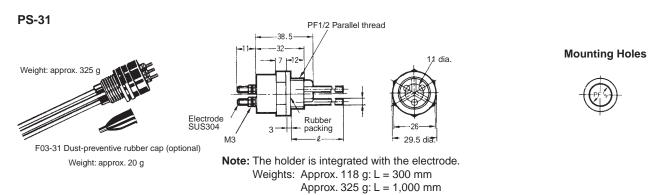
## **Dimensions**

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.

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