Electrode Holder

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- The PS-□S(R) are separate Electrode Holders that allow the Electrodes to be withdrawn easily for inspection.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 (3-pole)	PS-31 (SUS304, 300 mm) 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 MΩ 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 kΩ. They should be used with the Two-wire 61F Controllers.

2. Cut the electrodes to the desired length.

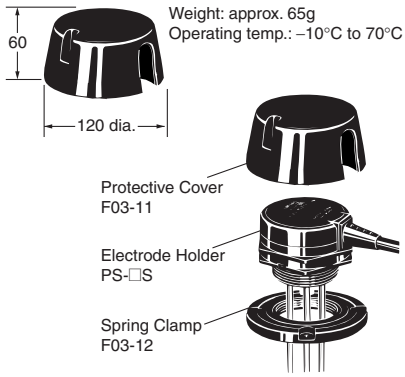
3. PS-31 comes in a 3-pole model only.

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

F03-11 Protective Cover

Use this Cover for PS-series Electrode Holders with Mounting Frames (upper one in the following illustration), This Cover can also be used when installing the BF-series Electrode Holders outdoors. This Cover is for protection from rain and wind. It is not waterproof.

Applicable Electrode Holders:
BF-3, BF-4, BF-5, PS-3S(R), PS-4S(R), PS-5S(R)

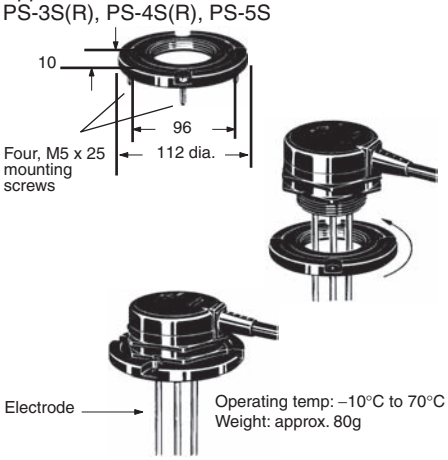


F03-12 Spring Clamp

Used to clamp an Electrode Holder with ease, as shown in the illustrations, when the Electrode Holder is applied to a tank without a coupling.

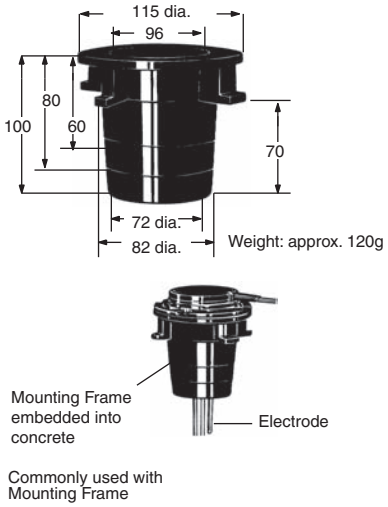
Squeeze the mounting frame into the Holder as shown below.

Applicable Electrode Holders:
PS-3S(R), PS-4S(R), PS-5S



F03-13 Mounting Frame for installing in concrete

Firmly secure the F03-12 Spring Clamp to the F03-13 Mounting Frame with M5 x 25 screws and embed it into the concrete production water tank. Cut the F03-13 to match the depth of the concrete.

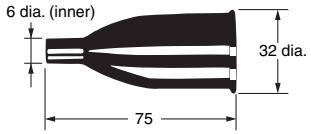


Note: If the F03-11 and F03-12 are used together, the screws and bolts that are provided with the F03-11 cannot be used.

■ PS-31 Electrode Holder Accessories (Order Separately)

F03-31 Dust-proof Rubber Bushing

Note: This Bushing is not waterproof.



Material: Silicon rubber

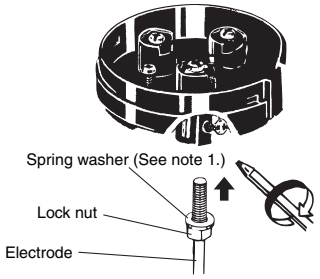
■ Accessories Required for Connecting the PS-□S(R) and Electrodes (Order Separately)

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.

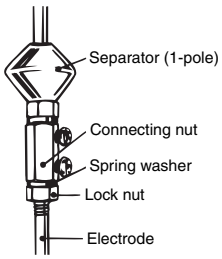


Electrode Longer than 1 m

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

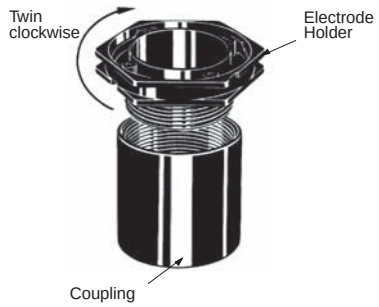
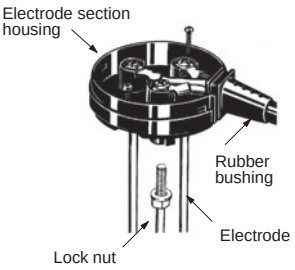
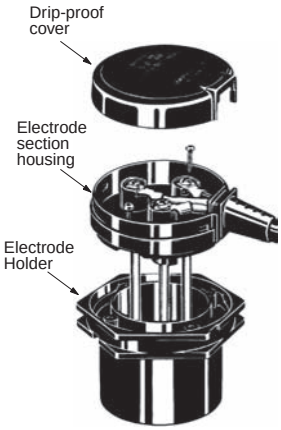
Use F03-14 1P, 3P, and 5P Separators to prevent the electrodes from touching each another.



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

Mounting

■ PS-3S Electrode Holders

1. Mounting Electrode Holder	2. Attaching Electrode(s) to Electrode section	3. Inserting Electrode section into Electrode Holder
• Screw the Electrode Holder into the coupling secured at the installation location.	• Insert each Electrode into the connecting nut, secure the Electrode with the clamp screws, and then tighten the lock nut. • Connect the leads, inserted through the hole of the rubber bushing, into the respective terminals.	• Fit the Electrode section into the Electrode Holder and secure it with the two screws. • Check the Electrode section for proper wiring, fit the rubber bushing in position, and then cover the Electrode Holder with the drip-proof cover.
		

Note: 1. OMRON does not sell couplings.

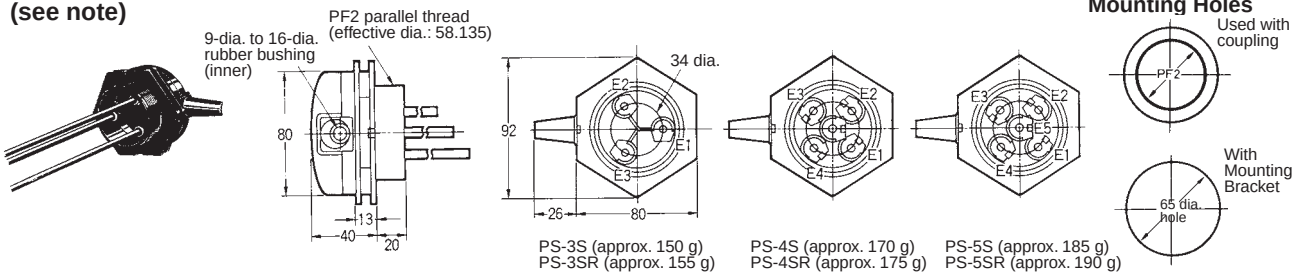
2. Screw in the Electrode until it reaches the bottom of the nut. Insufficient insertion will cause a faulty connection.

Dimensions

Note: All units are in millimeters unless otherwise indicated.

■ Electrode Holders

PS-3S/-4S/-5S
PS-3SR/-4SR/-5SR
(see note)



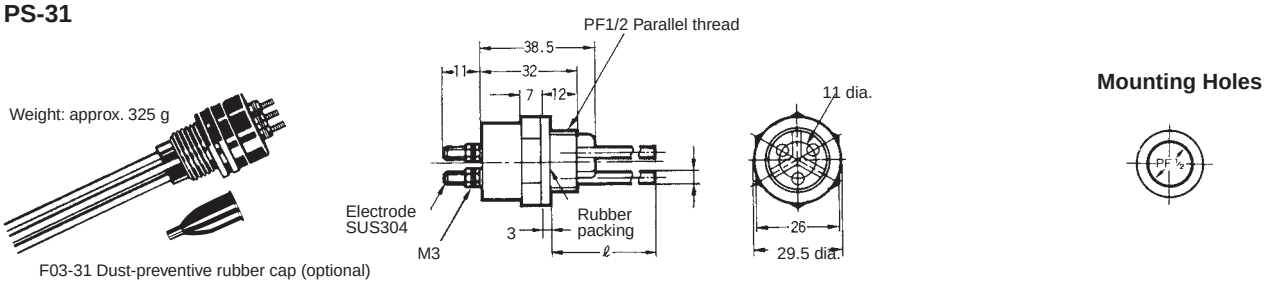
PS-3S (approx. 150 g)
PS-3SR (approx. 155 g)

PS-4S (approx. 170 g)
PS-4SR (approx. 175 g)

PS-5S (approx. 185 g)
PS-5SR (approx. 190 g)

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

PS-31



F03-31 Dust-preventive rubber cap (optional)
Weight: approx. 20 g

Note: The holder is integrated with the electrode.
Weights: Approx. 118 g: L = 300 mm
Approx. 325 g: L = 1,000 mm

■ 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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