

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with the 'O' being a simple circle. The entire logo is set against a light yellow rectangular background.

Automatización Eléctrica
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22.5 mm wide conductive level controller

The 61F-D21T is a conductive level controller in a 22.5 mm wide industrial housing. Via DIP switches its function (supply or drainage) can be selected. This product is for single- or two-point level control.

- Time delay function up to 10 s
- Supply voltages: 24 VAC/DC and 100-240 VAC
- Control output: Relay 6 A at 250 VAC resistive load
- Probes cable length: Max. 100 m from controller
- LED indicator: Green for power ON, yellow for output relay

Ordering information

Supply voltage	Order code
24 VAC/VDC	61F-D21T-V1 24 VAC/DC
100 to 240 VAC	61F-D21T-V1 100 to 240 VAC

Accessories

Electrode holders					
Applications	Mounting style	Insulator material	Max. temperature	Number of electrodes	Order code
For city water and other general use. Easy-to-replace separate versions for maintenance.	Flange	Phenol resin	70°C	3	PS-3S
When mounting space is limited. Special 3-pole holder of small size and light weight.	Screw	Phenol resin		3, 300 mm 3, 1000 mm	PS-31-300MM PS-31-1000MM
Use for sewage, sea water, etc., having a low specific resistance.	Flange	Ceramics	150°C (without water drips or vapour on the electrode holder surface)	1	BF-1
For resistance to high pressure. Use in tanks with high temperature or pressure.	Screw	PTFE	250°C (without water drips or vapour on the surface of the electrode holder)	1	BS-1
Electrode separators				Number of electrodes	Order code
				1	F03-14 1P
				3	F03-14 3P
Electrodes, connecting, and lock nuts					
Applicable liquids	Material	Component	Indication mark	Inscription	Order code
Purified city water, industrial water, sewage	Equivalent to SUS 304 (AISI-304)	Electrode (1 m long)	1 line	–	F03-01 SUS201
		Connecting nut	–	–	F03-02 SUS201
		Lock nut	–	–	F03-03 SUS201
Purified city water, industrial water, sewage, dilute alkaline solution	SUS316 (AISI-316)	Electrode (1 m long)	2 lines	–	F03-01 SUS316
		Connecting nut	–	6	F03-02 SUS316
		Lock nut	–	316	F03-03 SUS316

Specifications

Rated voltage	24 VAC, 24 VDC, 100 to 240 VAC	
Operating voltage range	85 to 110% of rated voltage	
Voltage between electrodes	6 VAC p-p (approx. 20 Hz)	
Power consumption	24 VDC	2 W max.
	24 VAC	4 VA max.
	100 to 240 VAC	5 VA max.
Operating resistance	10 kΩ to 100 kΩ (variable)	
Reset resistance	250 kΩ max.	
Response time	Approx. 0.1 to 10 s (variable)	
Cable length	100 m max. with completely insulated (600 V) catbire cable with 3 conductors (0.75 mm ²)	
Control output	6 A at 250 VAC for resistive load at 20°C, 1 A at 250 VAC for inductive load cosφ = 0.4 at 20°C	
Indicators	Green LED: Power, yellow LED: Control output	
Ambient temperature	Operating: -20 to 60°C, storage: -30 to 70°C (with no condensation or icing)	
Size in mm (HxWxD)	90x22.5x100	



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