

Electroprobe Q - DIN rail mounted level controller

Conductivity probe level controller

- **DIN Rail Mounted (3DIN, 54mm)**
- **Ideal for OEM Integration or control panel building**
- **Uses Conductivity Probes with No Moving Parts**
- **Fill or Drain between 2 probe points Suitable for a Variety of Conductive Liquids**
- **Supply Voltages from 12V to 415V**
- **3 Probe Sensitivity Ranges Including Adjustable Sensitivity (SR Models)**
- **Non-voltage Relay Output Rated 250VAC 5A(AC1) 2A(AC3)**
- **No Accessible Controls Avoids Unauthorised Adjustment**



How Does It Work?

Mac3 *Electroprobe Q* is a multifunctional level controller with 1 fixed function.

- **Differential Fill/Drain Function**, activates a relay output to maintain the level between two probes set at different heights. The relay only changes state when either the upper probe becomes immersed or the lower probe becomes dry, allowing the water level to move between but not exceed the area between the two level probes.

3 conductivity probes are used, a common electrode is always immersed and 2 electrodes above this level form low and high set points allowing *Electroprobe Q* to maintain a the level within a specific range.

Electroprobe Q is commonly used with water and other fluids with dependable conductivity, there are 3 main models available.

- **NS - Normal Sensitivity** - For clean water and fluids with a maximum total resistance of 5.6K Ω . This unit will tolerate very long probe cable lengths of up to 1000m
- **AS - High Sensitivity** - For fluids with low conductivity, particularly rainwater, with total resistance of 68K Ω .
- **SR - Adjustable Sensitivity** - For fluids of unknown resistance. Adjustable between 0 and 100K Ω .

Each model is available in a variety of supply voltages including AC and DC and ranging from 12V to 415V with many models having multiple voltage capability.

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Technical Specifications

Physical	
Material	Noryl (PPO) UL94 V0
Weight	200g
Dimensions	90x54x59mm
Mounting	EN50022 DIN Rail
Ingress Protection	IP20
Electrical	
Power Supply	24 – 117 – 230 – 380-415 Vac 50 - 60Hz
Power Consumption	4 VA Max.
Inter Electrode Voltage	10Vac
Output Characteristics	250V 5(2)A
Dielectric Strength	2 KV
Operating Resistance	
Model AS	68KΩ
Model SR	0 – 100KΩ
Model NS	5.6KΩ
Response Time	100ms
Operating Temperature	-10°C – +50°C
Storage Temperature	-20°C – +80°C
Maximum Length Of Probe Cables	
Models AS – SR	70 m
Model NS	1000 m

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