

# ELECTRONIC LEVEL CONTROLS WITH RESISTIVE PROBES

## USE

The electronic level controls with resistive probes are suitable to control and monitor levels of conductive liquids. To control autoclave pumps, steam generator pumps, fill or empty tanks. Electronic level controls are available in two different models:

### Regulation electronic level control

#### Shutdown level control with manual reset

As a safety device this instrument is installed, completely independent from the level control, which can be electronic or mechanical.

When the level of the liquid falls below the minimum level, or mains supply is disrupted, the unit will shut down the burner. To restart, the level controller must be manually operated using the reset button.

## INSTALLATION AND OPERATION

Level control operation depends on liquid conductivity, therefore it is not suitable for use with liquids such as naphtha, gas-oil, lubricating oils and other oil derivatives, distilled water.

The level is determined by the length of the electrodes: two are required for the level differential, one, the longest, to ensure conductivity.

Fixing by clip-on to 35mm rail, EN 50022-3, Din 46277-3 or using the plate supplied for surface installation.

## TECHNICAL FEATURES

The controller modular case is manufactured in shock-resistant thermoplastic material, designed for side by side multi-installations.

Knob to adjust the sensibility according to the liquid to control.

## HOMOLOGATION AND STANDARDS

Complies with CEI-EN 60947-5-1 standards

## ELECTRICAL FEATURES

Operating voltage 24V ac (code M). or 230V ac (code F).

Voltage between the probes 8V~

Adjustable sensivity range from 2 to 20 K

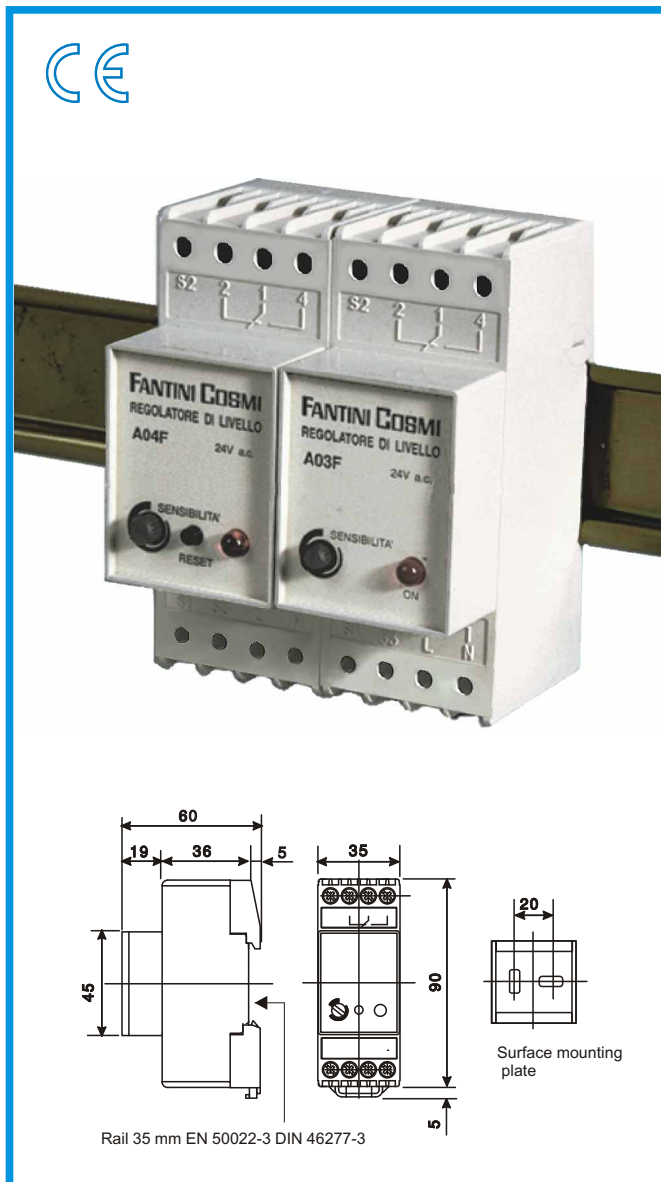
Max. cable length 800m, insulation 600V~

Insulation resistance 100 M

Dielectric strength 1500V~ for 1 minute

Output through electromagnetic SPDT relay

Contact rating 5A - 230V Ac1.



TYPE	Supply Voltage	Level differential	Working temperature	Protection	Weight each	Box pcs.
	V ac.	mm	°C		Kg	No

### ELECTRONIC LEVEL CONTROLS WITH RESISTIVE PROBES

<b>A03D</b>	110 V c.a.	The level differential is established by the length of the electrodes	-10 to 50	IP20	0.22	
<b>A03F</b>	24 V c.a.					
<b>A03M</b>	230 V c.a.					

### SHUTDOWN LEVEL CONTROLS WITH MANUAL RESET

<b>A04D</b>	110 V c.a.	The level differential is established by the length of the electrodes	-10 to 50	IP20	0.22	
<b>A04F</b>	24 V c.a.					
<b>A04M</b>	230 V c.a.					

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## Probes and probe-holders

(see next page A03-EA)

Probe for corrosive liquids, 10 bar - 160°C.....**EA18**

Ballasted probe, open tanks.....**EA21**

Probe for corrosive liquids, 35 bar - 250°C.....**EA20**

Ballasted probe with cable, open tanks.....**EA21**

**See example installation and electrical diagram at page A03-S**