



EQUIPMENT FOR WATER TREATMENT SYSTEMS

AS3037

Controller for Cooling tower



■ Description

The unit type AS3037 is universal applicable for automatic monitoring and control of cooling tower plants. The controller is equipped with an conductivity meter and with optional temperature meter.

There are six possible stages : "Stand by", "Service", "Flush", "Flush Stop", "Flush blocked" and "Shot dosing".

Adaptable to user specific requirements by built-in programmable options.

The programmed configuration will be stored into non volatile memory and therefore not be affected by power loss.

■ Features

User Interface

- Monochrome LCD display (16x2 characters)
- Control through six keys
- Five LEDs for process and alarm indication
- Acoustic signal for alarm
- Language : English, French, German and Dutch

Inputs

- 4x Input for potential free switch
 - 1x Conductivity meter
- Optional (circuit board IF2030)
- 1x Temperature input

Conductivity meter

- Automatic range switching
- Cell constants from 0,01 - 10,00 cm^{-1}
- Range from 0,5 - 100.000 $\mu\text{S}/\text{cm}$ depending on used cell
- Manual temperature compensation
- Capacitive cell

Temperature meter

- Range from 0 - 94°C (Δ 32 - 201 °F)
- PT1000

Outputs

- 1x Relay output (powered)
 - 2x Relay output (dry contact)
- Optional (circuit board IF2030)
- 2x Relay output (dry contact)

Memory

- Programming will be stored and not be affected by power loss.

Enclosure

- Suitable for wall mounting, IP65

Power supply

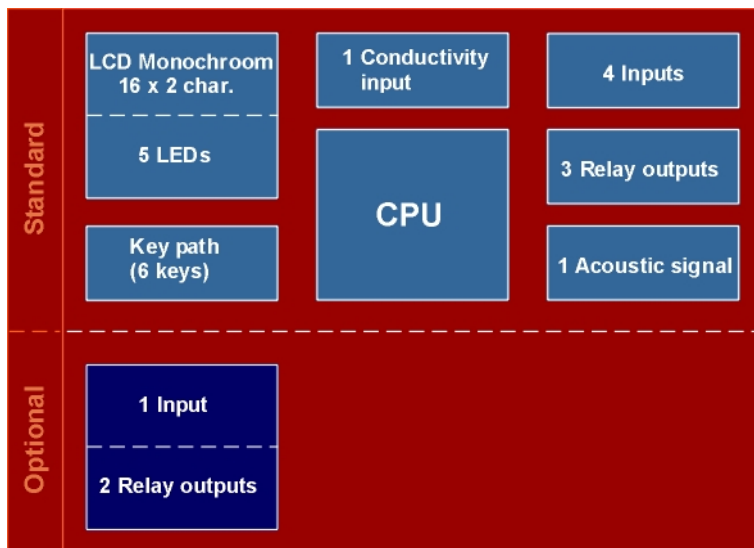
- 24 VAC input / 24 VAC output
- 115 VAC input / 115 VAC output
- 230 VAC input / 230 VAC output
- 115 VAC input / 24 VAC output
- 230 VAC input / 24 VAC output



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■ Block diagram



■ Function Table

The relay outputs and digital inputs are related to the following functions :

Relay Outputs	Digital Inputs			
Flush valve	Water meter			
Inlet valve	Stop			
Proportional dosing	Level switch			
Biocide dosing	Level switch dosing tank 1			
Flow pulse	Level switch dosing tank 2			
Alarm	Block flushing			
Circulation pump				

■ Ordering Information

Wall mounted :

AS3037 with 1 powered relay output, 2 relay outputs with dry contact
 AS3037IT with 1 powered relay output, 4 relay outputs with dry contact and 1 temperature meter

Add power supply to codes as mentioned above :

24V 24 VAC / 24 VAC
 115V 115 VAC / 115 VAC
 230V 230 VAC / 230 VAC
 115/24V 115 VAC / 24 VAC
 230/24V 230 VAC / 24 VAC