



EQUIPMENT FOR WATER TREATMENT SYSTEMS

AS3050 / AS3051

Controller for Cooling tower



AS3050



AS3051

■ Description

The unit type AS3050 or type AS3051 is universal applicable for automatic monitoring and control of cooling tower plants. The controller is equipped with a conductivity meter optional is a second conductivity meter and temperature meter. Also optional is a circuit board with two recorder outputs (0(4) - 20 mA). There are six possible stages : "Service", "Flush", "Low level", "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
- Ten LEDs for process and alarm indication
- Language : English, French, German, Dutch, Spanish and Italian

Inputs

- 7x Input for potential free switch
- 1x Conductivity meter
- Optional circuit board for:
 - 2nd Conductivity meter + 1x Temperature meter

Conductivity meter

- Automatic range switching
- Cell constants from 0,01 - 10,00 cm⁻¹
- Range from 0,5 - 100.000 µS/cm depending on used cell
- Manual or automatic temperature compensation
- Capacitive cell

Temperature meter

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

Outputs

- 4x Relay output (powered)
- 3x Relay output (dry contact)
- Optional circuit board for:
 - 2x Analogue output (0-20mA) for recorder

Memory

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

Enclosure

- AS3050 : Suitable for wall mounting, IP65
- AS3051 : Suitable for panel mounting, IP42

Power supply

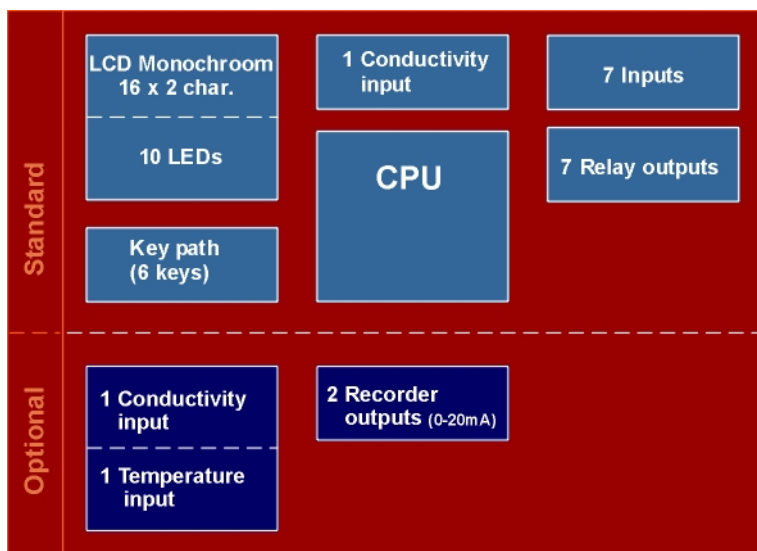
- 24 VAC input / 24 VAC output
- 115 VAC input / 115 VAC output
- 230 VAC input / 230 VAC output



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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	High level switch			
Proportional dosing	Low level switch			
Biocide dosing	Flush Blocking 1			
Alarm	Flush Blocking 2			
	Low level 1 circul. tank			
	Low level 2 circul. tank			

■ Ordering Information

Wall mounted :

- AS3050/1 with 1 conductivity meter
- AS3050/2 with 2 conductivity meter and 1 temperature input
- AS3050/1/I with 1 conductivity meter and 2 recorder outputs
- AS3050/2/I with 2 conductivity meter and 1 temperature input and 2 recorder outputs

Panel mounted :

- AS3051/1 with 1 conductivity meter
- AS3051/2 with 2 conductivity meter and 1 temperature input
- AS3051/1/I with 1 conductivity meter and 2 recorder outputs
- AS3051/2/I with 2 conductivity meter and 1 temperature input and 2 recorder outputs

Add power supply to codes as mentioned above :

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