

OS3050 / OS3051

Controllers for Reverse Osmose



OS3050



OS3051

■ Description

The unit type OS3050 (OS3051) is universal applicable for automatic monitoring and control of reverse osmosis plants. There are five possible stages : "Stand by", "Production", "Rinse after production", "Rinse during standby" and "Maintenance". This unit can monitor conductivity, temperature (optional) and several inputs e.g. level switches, low pressure switch, motor security switch, etc..

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

- OS3050 : Suitable for wall mounting, IP65
- OS3051 : Suitable for panel mounting, IP42

Power supply

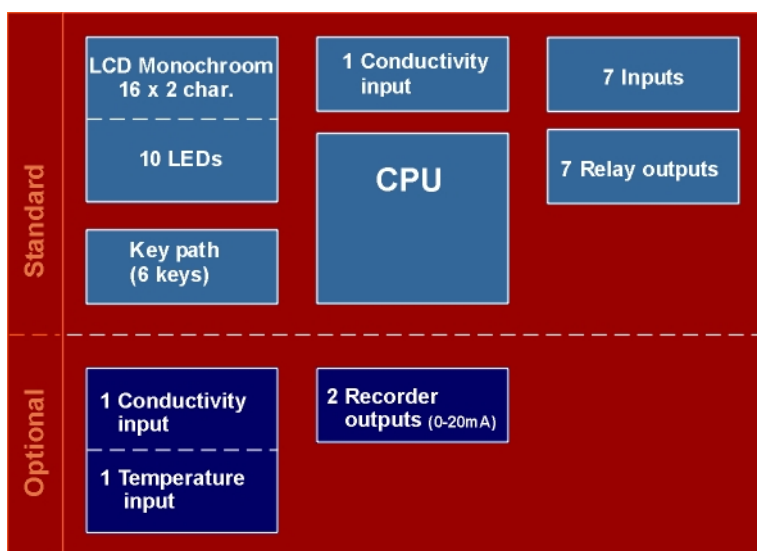
- 24 VAC input / 24 VAC output
- 115 VAC input / 115 VAC output
- 230 VAC input / 230 VAC output



EQUIPMENT FOR WATER TREATMENT SYSTEMS

OS3050 / OS3051

■ Block diagram



■ Function Table

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

Relay Outputs		Digital Inputs		
Inlet valve		Stop		
High pressure pump		High level switch		
Concentrate valve		Low level switch		
Permeate valve		Exceeded water pressure		
Dosing pump		Low water pressure		
Alarm		Concentrate flow switch		
Malfunction		Motor security switch		
		Remote alarm reset		

■ Ordering Information

Wall mounted :

OS3050/1 with 1 conductivity meter
 OS3050/2 with 2 conductivity meter and 1 temperature input
 OS3050/1/I with 1 conductivity meter and 2 recorder outputs
 OS3050/2/I with 2 conductivity meter and 1 temperature input and 2 recorder outputs

Panel mounted :

OS3051/1 with 1 conductivity meter
 OS3051/2 with 2 conductivity meter and 1 temperature input
 OS3051/1/I with 1 conductivity meter and 2 recorder outputs
 OS3051/2/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

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EQUIPMENT FOR WATER TREATMENT SYSTEMS

Controller for Reverse Osmose

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