



EQUIPMENT FOR WATER TREATMENT SYSTEMS

OS3030

Controller for Reverse Osmose



■ Description

The unit type OS3030 is universal applicable for automatic monitoring and control of reverse osmosis plants. There are six possible stages : "Stand by", "Production", "Rinse after production", "Rinse during standby", "Rinse during Production" and "Maintenance".

This unit can monitor conductivity 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
- Five LEDs for process and alarm indication
- Acoustic signal for alarm
- Language : English, French, German, Dutch, Spanish, Italian and Czech

Inputs

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

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 temperature compensation
- Capacitive cell

Outputs

- 3x Relay output (powered)
- 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

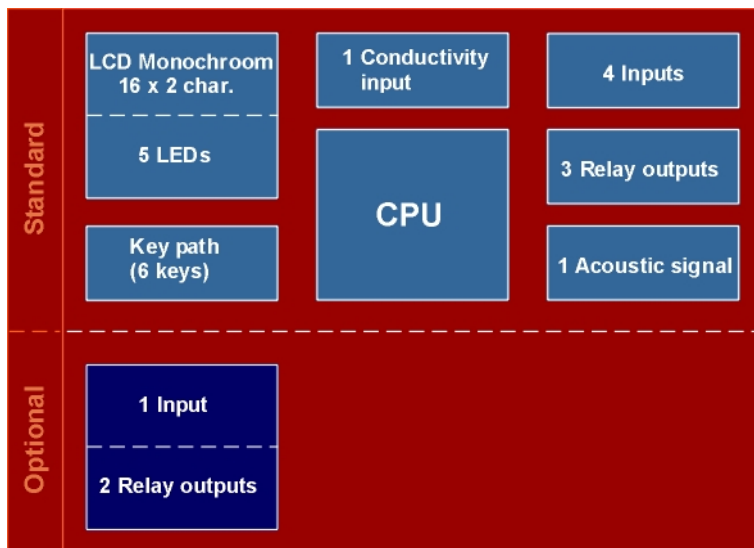
- 24 VAC input / 24 VAC output
- 115 VAC input / 115 VAC output
- 230 VAC input / 230 VAC output
- 115 VAC input / 24 VAC output
- 230 VAC input / 24 VAC output



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■ Block diagram



■ Function Table

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

Relay Outputs	Digital Inputs			
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			
Additional program	External switch			

■ Ordering Information

Wall mounted :

OS3030 with 3 powered relay outputs and 4 digital inputs

OS3030IF with 3 powered relay outputs, 2 relay outputs with dry contact and 5 digital inputs

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