



EQUIPMENT FOR WATER TREATMENT SYSTEMS

UF2050 / UF2051

Controller for Ultra filtration



UF2050



UF2051

■ Description

The unit type UF2050 is universal applicable for automatic monitoring and control of ultra filtration plants. There are eleven possible stages : "Stand by", "Filtration 1", "Filtration 2", "Pre flush", "Air scour", "Flush 1", "Backwash", "Enhanced Backwash 1", "Enhanced backwash 2", "Enhanced backwash 3" and "Flush 2". There is a "top/bottom" mode available for filtration and backwash step. This unit can monitor several inputs: high and low level switch for clean water tank, low level switch for raw water tank / differential pressure switch and an overpressure switch. 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
- Six LEDs for process and alarm indication
- Language : English and German.

Inputs

- 4x Input for potential free switch

Outputs

- 6x Relay output (powered)
- 5x Relay output (dry contact)

Memory

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

Enclosure

- UF2050 : Suitable for wall mounting, IP65
- UF2051 : Suitable for panel mounting, IP42

Power supply

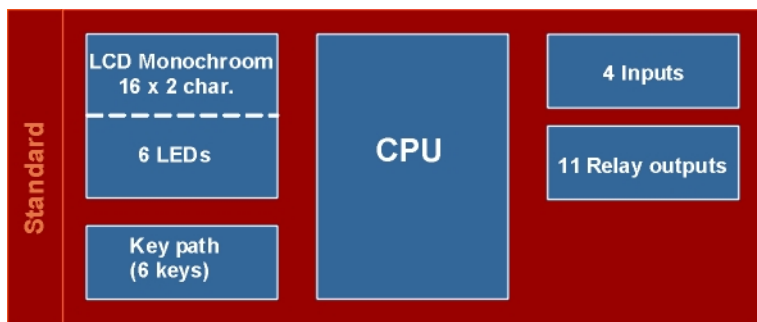
- 24 VAC input / 24 VAC output
- 115 VAC input / 115 VAC output
- 230 VAC input / 230 VAC output
- 115 VAC input / 24 VAC output
- 230 VAC input / 24 VAC output
- 240 VAC input / 24 VAC output



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■ Block diagram



■ Function Table

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

Relay Outputs	Digital Inputs functions		
Universal outputs	High level switch clean		
Alarm	Low level switch clean		
Backwash pump	Low level switch raw		
	Overpressure		
	Differential pressure switch		

■ Ordering Information

Wall mounted :

UF2050 + power supply

Panel mounted :

UF2051 + power supply

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 (only UF2050)
 230/24V 230 VAC / 24 VAC (only UF2050)
 240/24V 240 VAC / 24 VAC (only UF2050)