SFS8000

Controller for Softener / Filter
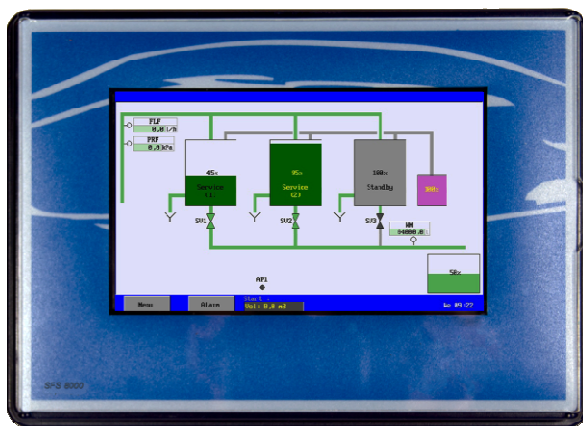
■ Description

The unit type SFS8000 is universal applicable for automatic monitoring and control of softener / filtering plants.
There are four possible stages : "Stand by", "Service", "Service Stop", "Regeneration".
This unit can monitor flow, pressure and several inputs e.g. level switches, water meters, 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.
The standard version is suitable for duplex plants. The controller can also be expanded by an additional relay circuit board to be suitable for triplex plants..

■ Features

User Interface
- Colour 7" TFT display (800x480)
- Control through touch panel
- Language : English, French, German, Dutch

Inputs
- 8x Input for potential free switch
Expandable with (depending on total configuration) :
- 16x Input for potential free switch
- 12x input 0 (4) -20mA
  (Flow, pressure, temperature and tank level)

Outputs
- 8x Relay output (powered)
- 6x Relay output (dry contact)
Optional circuit boards for e.g. 3rd filter:
- 7 Additional relay outputs
  (4x powered / 3x dry contact)
- 6x output 0 (4) -20mA (recorder)

Memory
- Last twenty alarm messages will be stored.
- Real time clock with "lifetime" battery
- Programming will be stored and not be affected by power loss.

SD Card
- Software updates
- Programming (Save and Load)
- Data log, Process log and Alarm log

Communication (optional)
- RS485 (data log formats : CSV)
- RS232 (data log formats : CSV)
- Webserver
  - visualisation (schematic)
  - configuration
  - download log files on SD Card
- Email messages (alarm)
- Modbus compatible data reading

Enclosure
- Suitable for wall mounting, panel mounting and plate mounting
- IP65

Power supply
- 24 VAC input / (output = input or extern)
- 115 VAC input / (output = input or extern)
- 230 VAC input / (output = input or extern)
- [*] 115 VAC input / 24 VAC output
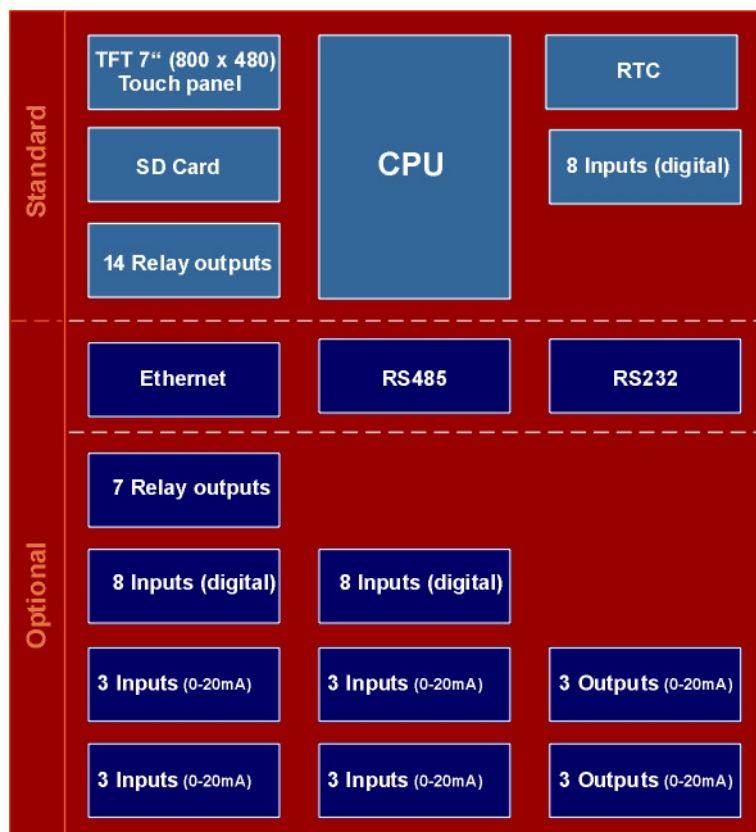- [*] 230 VAC input / 24 VAC output
- [*] 240 VAC input / 24 VAC output

[*] Expand options limited.

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■ Block diagram

■ Function Table

The relay outputs, digital inputs, inputs 0-20mA and outputs 0-20mA are free programmable for the following functions :

Relay Outputs		Digital Inputs		Inputs 0-20 mA		Outputs 0-20 mA
Service valve		Water meter general		Flow meter		Recorder
Central valves (e.g. Fleck)		Water meter filter (3)		Pressure meter		
Solenoid valves		Level switch storage tank		Tank level		
Regeneration output		Regeneration start				
Flush valve		Level chemical tank				
High pressure pump		Wait				
Alarm (2)		Remote alarm reset				
Additional program (3)		Pump protection switch				
		Valve position switch				

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■ Ordering Information
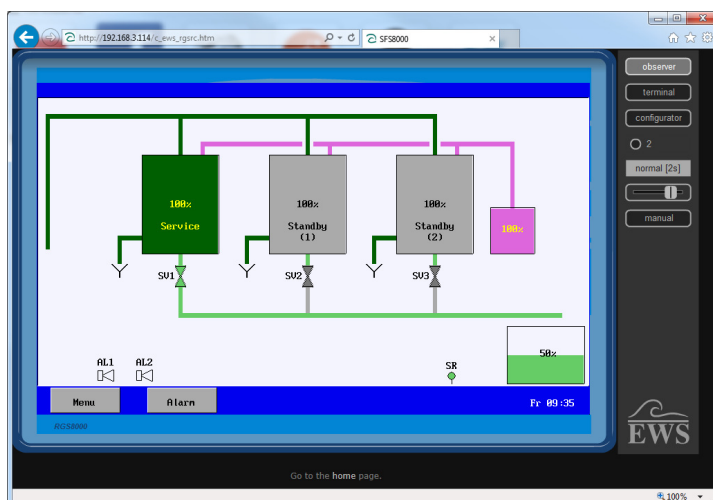
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Power supply :	24 VAC / 24 VAC	115 VAC / 24 VAC	115 VAC / ext.power
	115 VAC / 115 VAC	230 VAC / 24 VAC	230 VAC / ext.power
	230 VAC / 230 VAC	240 VAC / 24 VAC	240 VAC / ext.power

Communication	without RS232, RS485 and ethernet	
	with RS232, RS485 and Ethernet	
Relay outputs	number of circuit boards with 7 relay outputs (4x powered, 3x dry)	(2 – 3)
Inputs digital	number of additional circuit boards with 8 digital inputs	(0 – 2)
Inputs 0-20mA	number of additional circuit boards with 3 inputs 0-20 mA	(0 – 4)
Outputs 0-20mA	number of additional circuit boards with 3 outputs 0-20 mA	(0 – 2)

■ Web browser screen shots
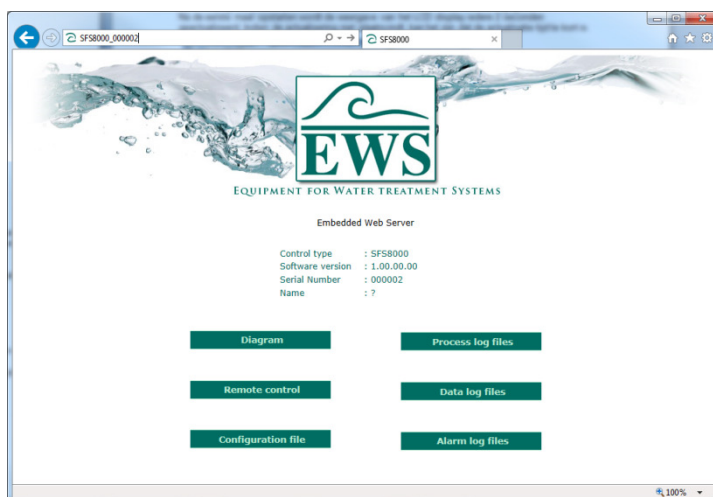
Main menu

Remote control
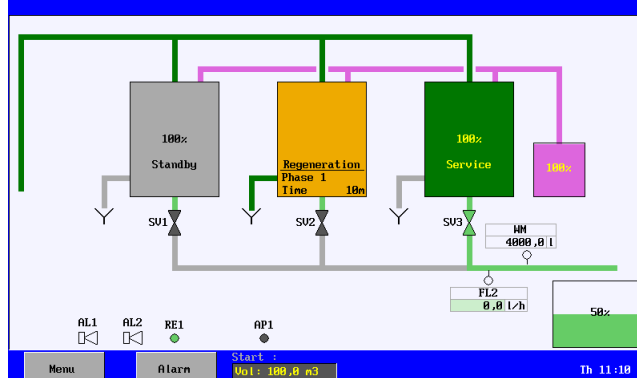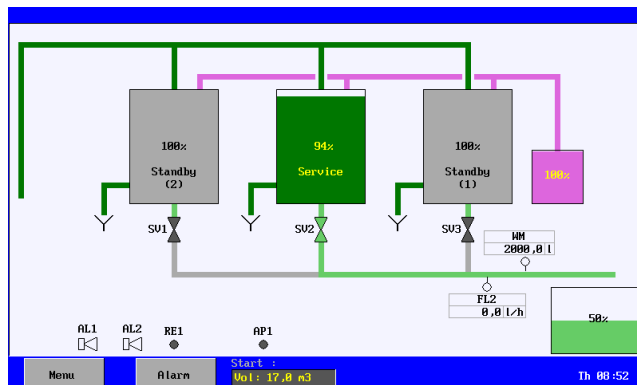
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■ General screen shots