

Operating Manual for Operator Panel

RO-

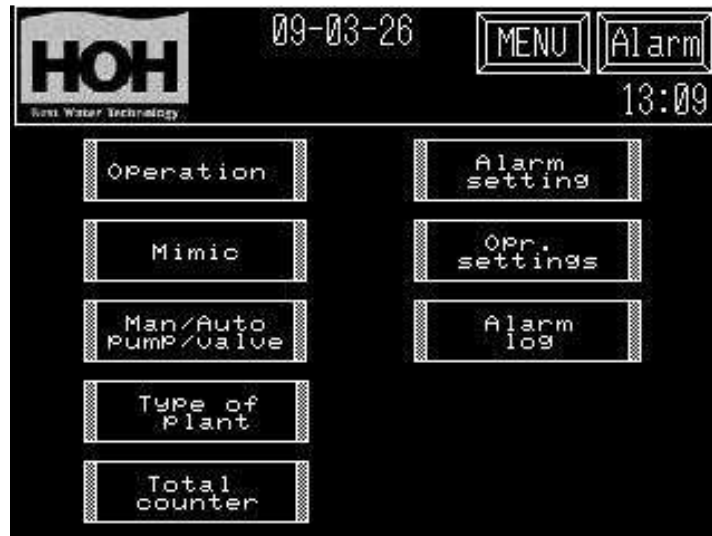
2700

Series

Contents:

1. Menu	3
1.1 Information found in the menu :	3
1.2 Functions in menu:	3
2 Operation	4
2.1 Information in Operation:	4
2.2 Functions in Operation:	4
3 Operation. Setting 1	5
3.1 Information in Operation Setting 1:	5
3.2 Functions in Operation Setting 1:	5
4 Operation. Setting 2	6
4.1 Information in Operation Setting 2:	6
4.2 Functions in Operation Setting 2:	6
5. Mimic.	7
5.1 Information in Mimic:	7
5.2 Functions in "Mimic": none.	7
6. Manual/Auto pumps and valves	8
6.1 Information in Man/Auto pumps , valves:	8
6.2 Funktionen in " Man/Auto pumps, valves":	8
7 Total Counter	9
7.1 Information in Total counter:	9
7.2 Functions in "Total counter":	9
8 Alarm Settings	10
8.1 Information in Alarm.Setting:	10
8.2 Functions in Alarm Setting:	10
9. Type of Plant	11
9.1 Information in Type of Plant:	11
9.2 Functions in "Type of Plant":	11
10. Alarm	12
10.1 Information in Alarm.	12
10.2 Functions in Alarm.	12
11. Alarm Log:	13
11.1 Information in Alarm History:	13
11.2 Functions in Alarm Log:	13
13. Date/Time :	14
13.1 Information in Date/Time:	14
13.2 Functions in Date/Time:	14
14 Password:	15
14.1 Information in Password:	15
14.2 Functions in Password:	15
14.3 Password:	15

1. Menu

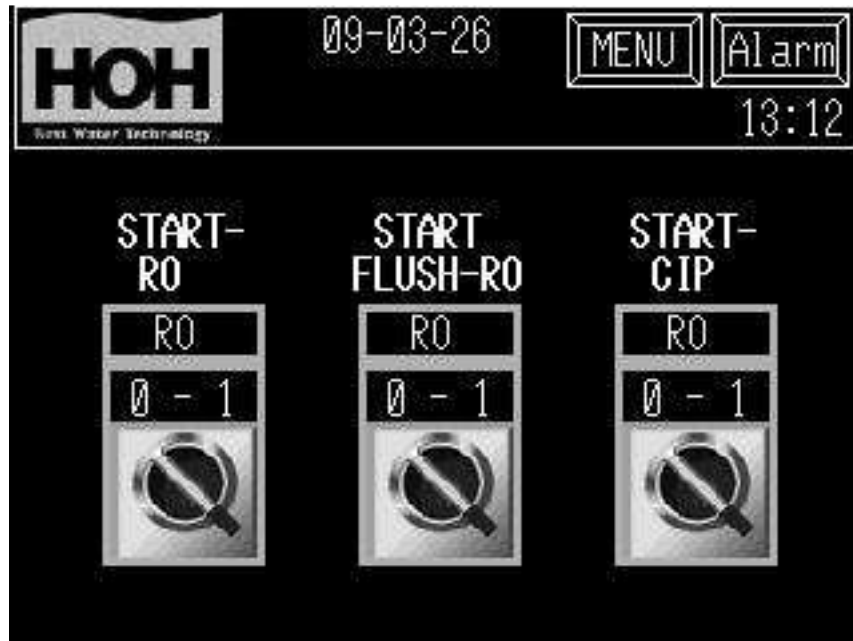


- 1.1 Information found in the menu :
- All screen displays are designed with a page header where date, time and plant type can be monitored.
- In case of an alarm, the alarm text in the control button in the right corner will start to flash with a slow frequency.
- Push the **Alarm** button
- On the alarm screen all active alarms will be shown,
- Push on the **MENU** button and you will return to this survey.
- Push **yy/mm/dd** to adjust date and time.

1.2 Functions in menu:

- Press **Operation RO** : On the operating screen it is possible to start and stop operation, flush and CIP cleaning if installed.
- Press **Operational settings**: In operational setting you select settings for Start-up of the RO plant.
(This screen display is protected by a Password (see paragraph 14.0)
- Press **Mimic**: On the mimic screen you can check operating status and measurements.
- Press **Total counter**: On the counter screen the total water amount from the water meters are shown.
- Press **Alarm setting**: In alarm setting you choose settings for setpoint and delays of alarms .
(This screen display is protected by a Password (see paragraph 14.0)
- Press **Type of plant**: On the Type of Plant screen you can select type of plant, language and options.
(This display is protected by a password (see paragraph 14.0)

2 Operation



2.1 Information in Operation:

Buttons for start/stop of plant and start/stop manual flush. If the CIP-option is installed, it is operated from this point
When the button is activated it changes position from 0 - 1.

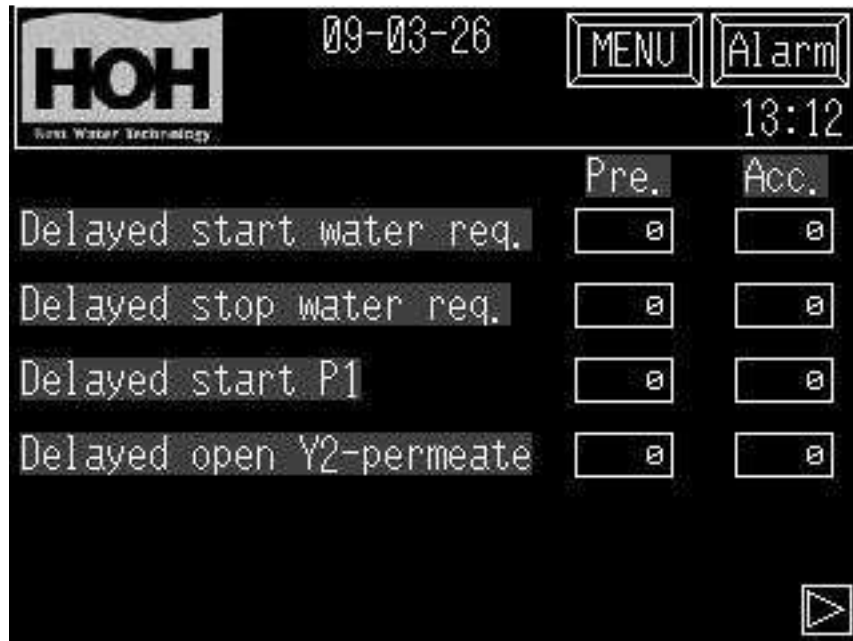
2.2 Functions in Operation:

Press 0 - 1
Start-RO For start/stop of the plant.

Press 0 - 1
Start flush-RO For start/stop flush of the plant.

Press 0 - 1
Start-CIP-RO For start/stop CIP-cleaning of the plant.

3 Operation. Setting 1



3.1 Information in Operation Setting 1:
Times for delay of start-up, valves and pump operations.

3.2 Functions in Operation Setting 1:

Here you can change times of delay of start and stop of plant on the level switches.
You may insert delays for start of pump and opening/closing of valves.

Data change:

In order to change a setting, press one of the fields. A pop-up keyboard will appear on the screen and the new value can be entered and stored by pressing ENT.

(This screen display is protected by a Password level 1 (see paragraph 14.0))

4 Operation. Setting 2



4.1 Information in Operation Setting 2:
Setting of calibration of water meters and current water flow.

4.2 Functions in Operation Setting 2:

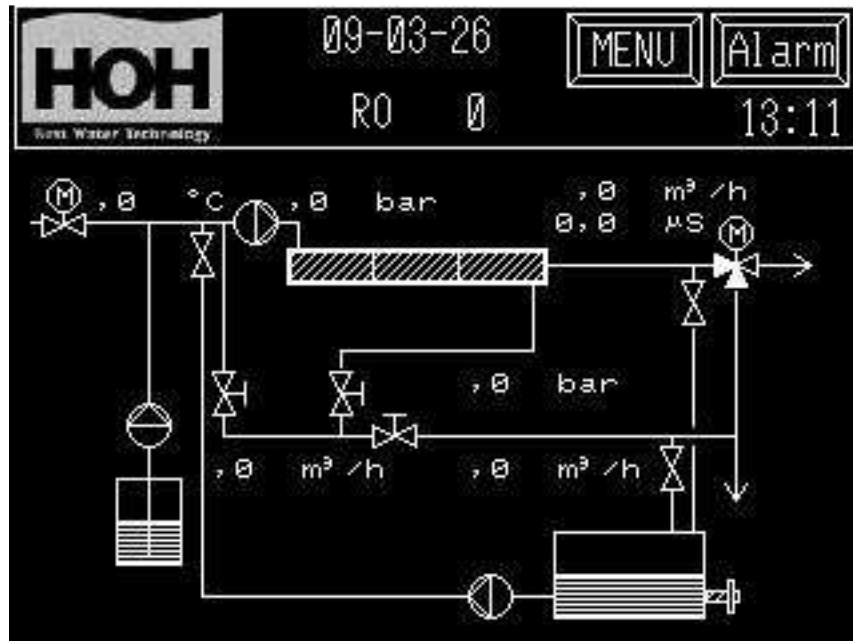
Here you can change the settings of calibration of water meters.

Change of Data:

In order to change a setting, press one of the fields. A pop-up keyboard will appear on the screen, and the new value can be entered and stored by pressing ENT.

(This screen is protected by a level 2 (see paragraph 14.0))

5. Mimic.

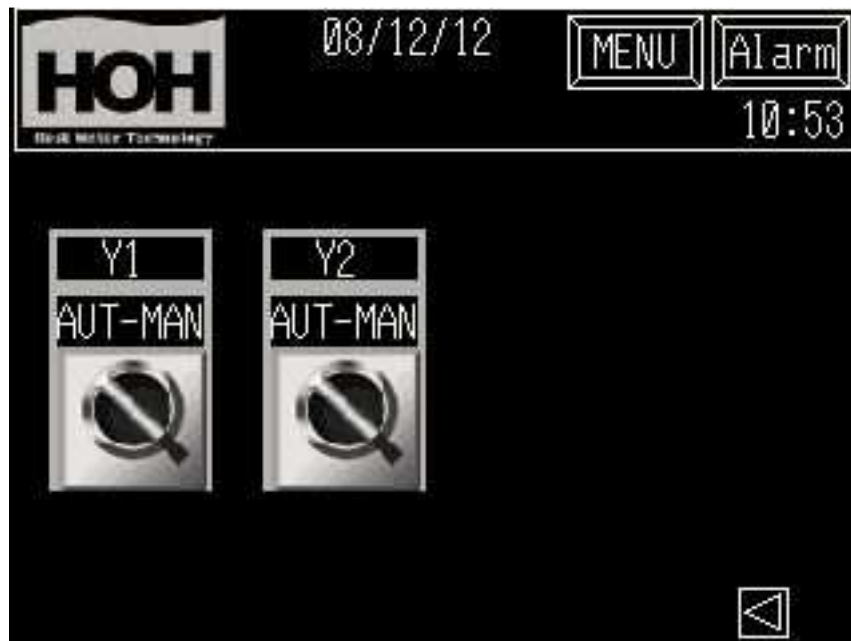
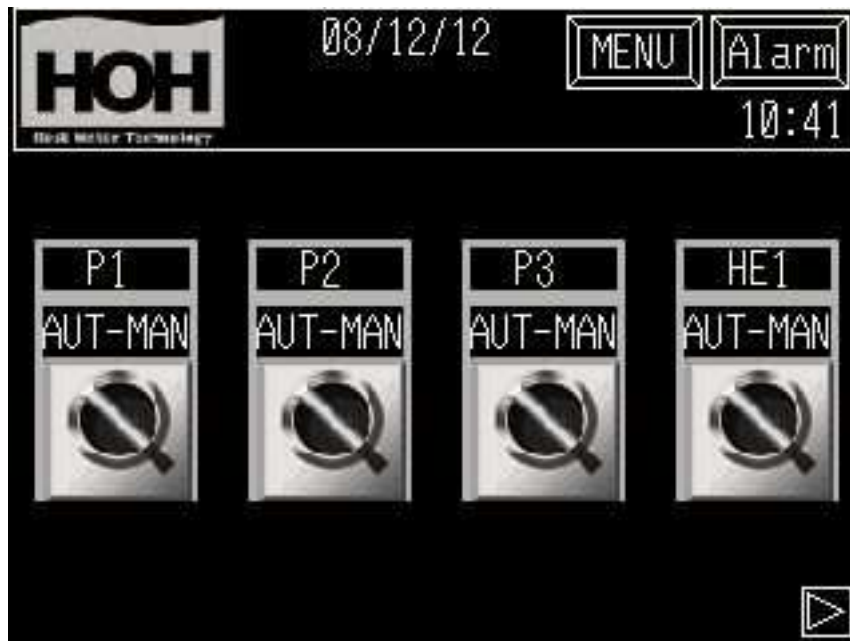


5.1 Information in Mimic:

Measurement of conductivity, flow, temperature and pressure (*if installed*).
Operating status of plant.
Operating status of valves and pumps.
Pumps change colour. (black = stopped, white = operating).
Valves change colour. (black = closed, white = open).

5.2 Functions in "Mimic": none.

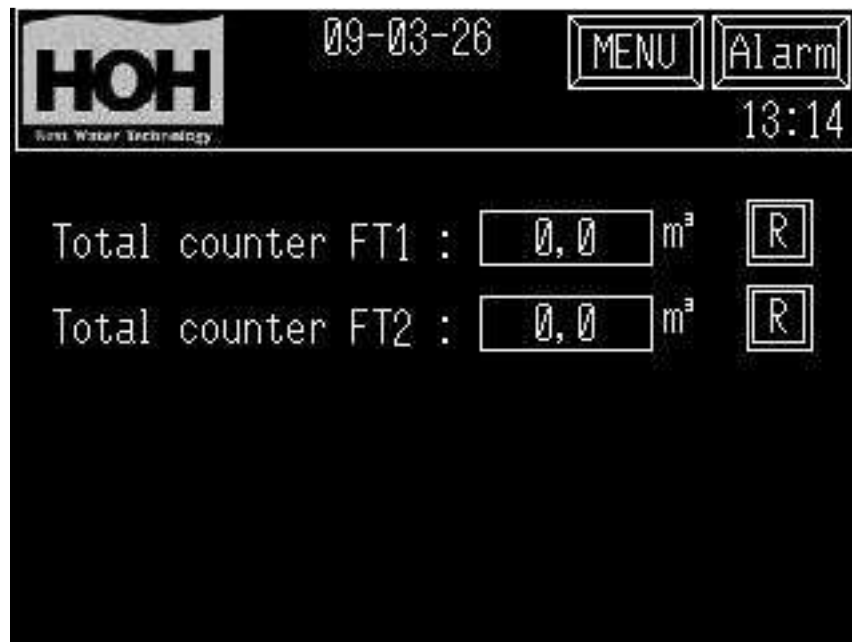
6. Manual/Auto pumps and valves



6.1 Information in Man/Auto pumps , valves:
Status for setting of pumps and valves.

6.2 Funktions in " Man/Auto pumps, valves":
Manual or auto operation/control of pumps and valves. You shift between auto/manual by pressing the change-over switch.

7 Total Counter



7.1 Information in Total counter:
Total summed up water amount to and from the plant

7.2 Functions in "Total counter":

Press the button to reset the total count of the water amount.
(This function is protected by a Password level 1 (see paragraph 14.0))

8 Alarm Settings



8.1 Information in Alarm.Setting:
Delays of alarms and setpoint for conductivity and pressure (if installed).

8.2 Functions in Alarm Setting:
Setting of times for delay of alarms and setpoints for conductivity and pressure in operation.

Change of Data:

In order to change a setting, press a field. A pop-up keyboard will appear on the screen and the new value can be entered and stored by pressing ENT.

(These screens are protected with a Password level 1 (see paragraph 14.0)).

9. Type of Plant



9.1 Information in Type of Plant:
RO type and selection of option.

9.2 Functions in "Type of Plant":

Press the button for Type of Plant and enter the type digits. Press on the field beside option in order to select options.

Press " Language " in order to change the language in the panel.

10. Alarm.



10.1 Information in Alarm.

This screen display with alarm will appear when pressing the Alarm button in the top right corner. If an alarm occurs on the plant, the alarm button will start to flash. The alarm will be presented with data and time of the alarm. When the alarm is reset on the alarm button, the alarm text will disappear and the alarm button will return to fixed text.

10.2 Functions in Alarm.

At the bottom of the screen display there is a button for shifting between screens in case of many alarms; the two buttons up/down are used for scrolling up or down the screen with the alarms.

All active alarms are reset by pressing the alarm button in the top right corner.

11. Alarm Log:



11.1 Information in Alarm History:

In this screen you see the latest 128 alarms with date and time of the alarm occurrence and the time of resetting of the alarm. If more than 128 alarms occur, the alarms that occurred first will be deleted. At the bottom of the screen there is a button for shifting between the alarm screens in case of many alarms; the two buttons up/down are used for scrolling up and down in the alarm screen.

11.2 Functions in Alarm Log:

None.

13. Date/Time :



13.1 Information in Date/Time:

Date and time in the operator panel.

13.2 Functions in Date/Time:

Date and time are adjusted by pressing the individual buttons and then entering the new value.

You store the new value by pressing ENT..

14 Password:



- 14.1 Information in Password:
The Password screen will appear automatically if a password-protected display is selected.

By entering the correct password you gain access to the requested screen display.
By pressing "cancel" you return to the original screen.

- 14.2 Functions in Password:

Entering of Data:

Enter the correct password and press ENT.

- 14.3 Password:

Password can be given by contacting :

HOH Watertechnology A/S
Tel.: +45 43600500
Process Department.