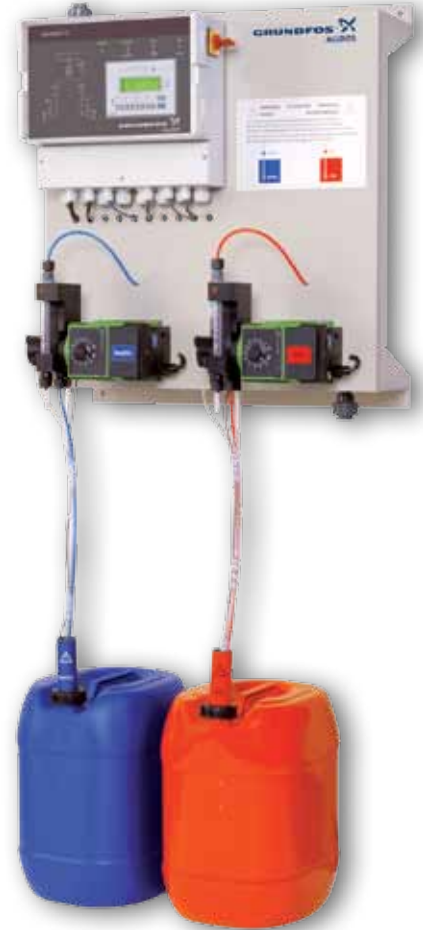
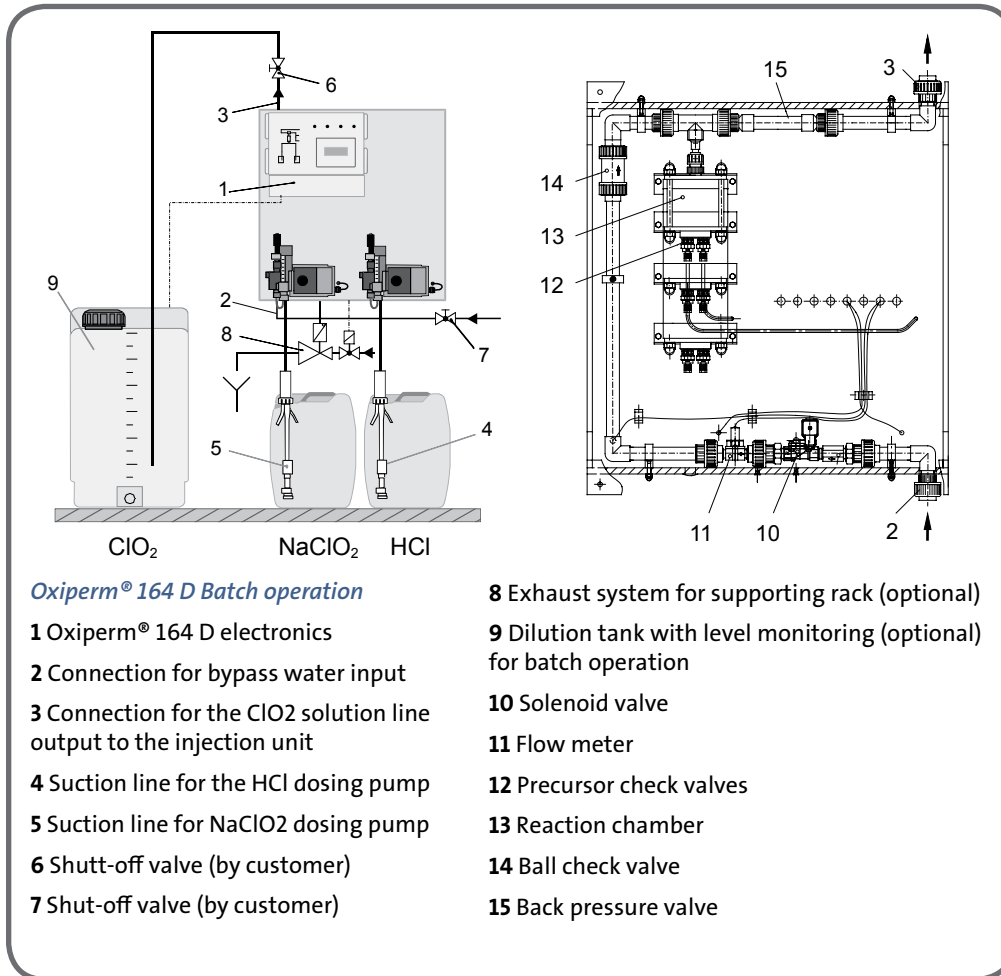


## SYSTEM DESIGN



## PERFORMANCE AND CONSUMPTION DATA

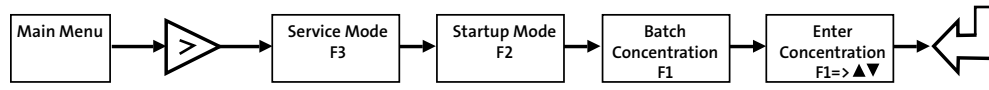
ClO <sub>2</sub> preparation capacity [g/h]	p <sub>max</sub> [bar]		Consumption of components [l/h]		Consumption of bypass water [l/h] (input pressure < p <sub>max</sub> )			Weight [kg]	Type
	50 Hz	60 Hz	HCl	NaClO <sub>2</sub>	continuous operation	batch operation *			
30	10	10	0.7		420	14	14 - 7.7	33	164-030D (DFI)
120	9	6	2.9		420	55	55 - 31	34	164-120D (DFI)
220	7	7	5.2		420	100	100 - 56	34	164-220D (DFI)
350	9	9	8.3		420	160	160 - 89	57	164-350D
700	9	9	16.5		900	320	320 - 179	62	164-700D
1000	9	9	24		900	450	450 - 258	66	164-1000D
1500	9	9	35		900	680	680 - 383	76	164-1500D
2000	9	6	48		900	900	900 - 517	82	164-2000D

\* This quick guide does not replace the IOM.  
Please refer to the IOM product detailed technical instructions

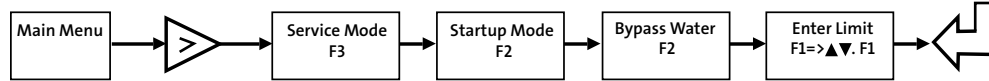
## SERVICE OPERATION

### STARTUP MODE

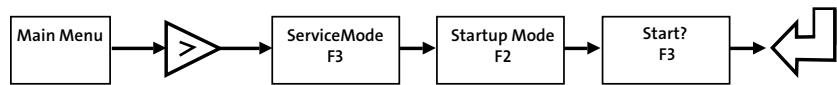
#### Batch Concentration



#### Bypass Water

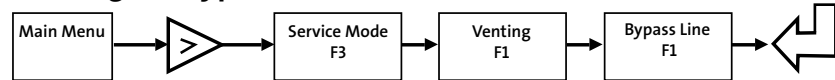


#### Start

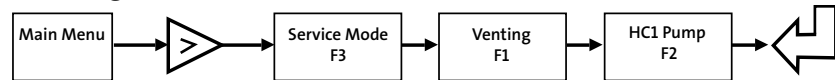


### VENTING

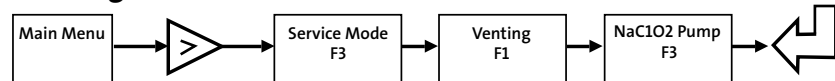
#### Venting the Bypass line



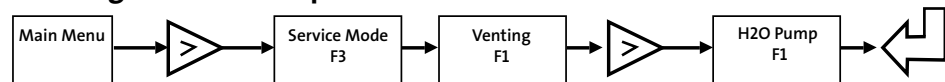
#### Venting the HClO2



#### Venting the NaClO2



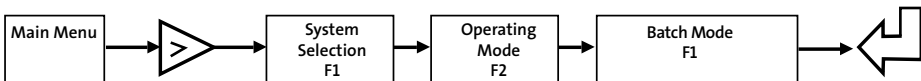
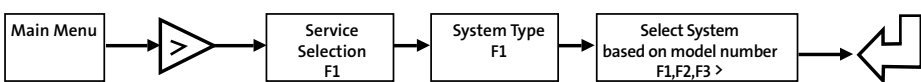
#### Venting the H2O Pump



### SYSTEM CHOICE

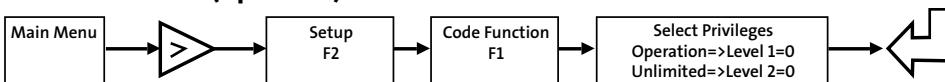
To return to the main menu press Esc three times.

#### System Choice / System Selection



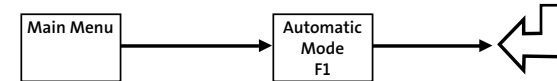
### SETUP

#### Code Function (optional)



### STARTING UP

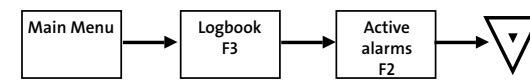
#### Automatic Mode



#### Manual Mode

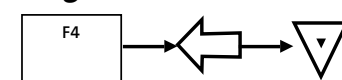


### VIEWING ALARMS

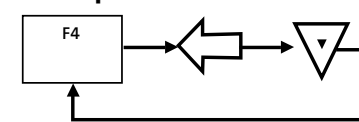


### CLEARINGS ALARMS

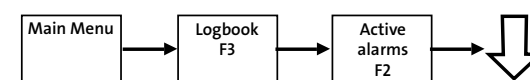
#### Single Alarm



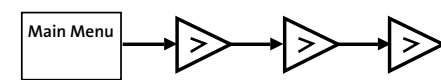
#### Multiple Alarm



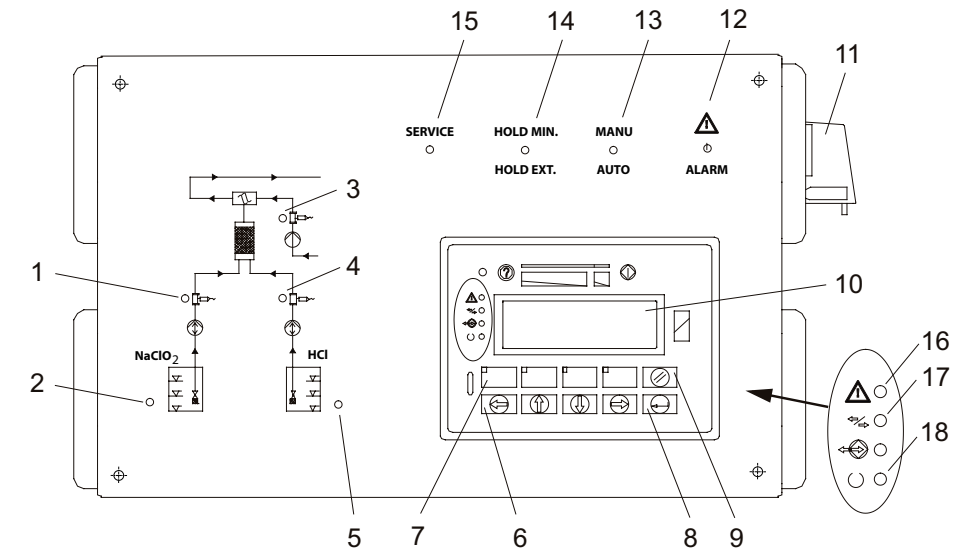
### SYSTEM INFORMATION



### CHECKING STATUS / DISPLAYING INFORMATION



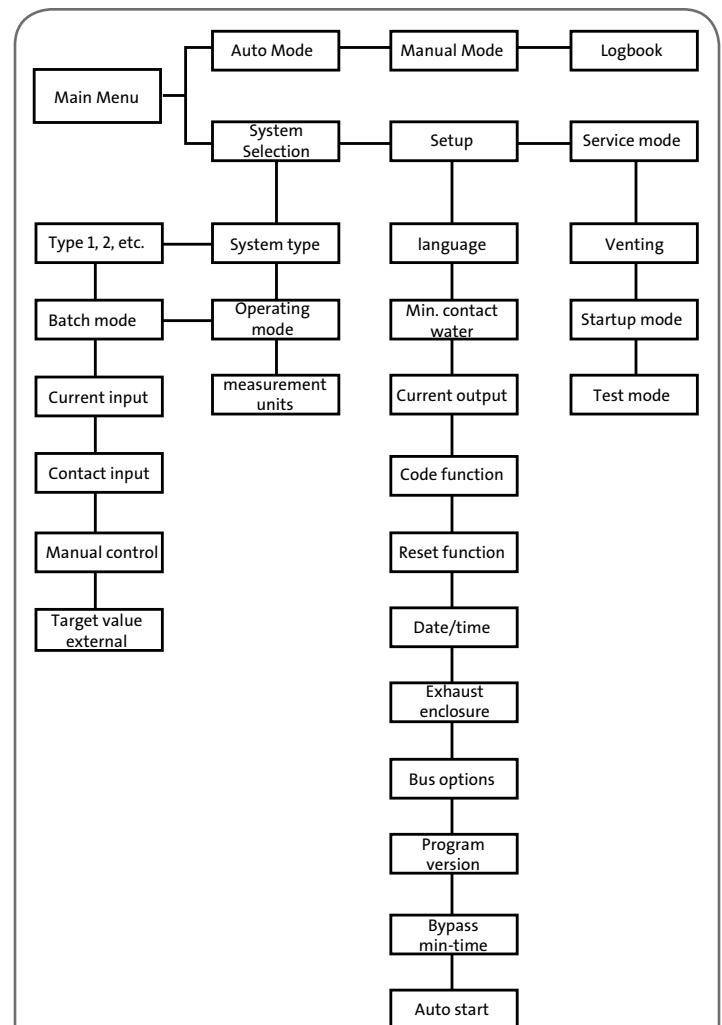
## CONTROL AND DISPLAY ELEMENTS



### LEGEND

- Item1 ..... LED - dosing controller for NaClO2 flow  
LED flashes with correctly set dosing controller
- Item2 ..... LED for NaClO2 tank  
LED off, level OK  
LED flashes with advanced empty alarm  
LED on, empty alarm
- Item3 ..... LED for bypass water  
LED on, bypass water OK  
LED flashes if bypass water outside tolerance
- Item4 ..... LED - dosing controller for HCl flow  
LED flashes with correctly set dosing controller
- Item5 ..... LED for HCl tank  
LED off, level OK  
LED flashes, advanced empty alarm  
LED on, empty alarm
- Item6 ..... Arrow keys for moving in the display menus
- Item7 ..... Function keys F1, F2 and F3  
Selection possibility for individual menu items  
Function key F4 - reset
- Item8 ..... "Enter" key, confirm inputs
- Item9 ..... Escape key to cancel/switch over to submenu
- Item10 ..... Display, 4-line
- Item11 ..... Master switch with EMERGENCY STOP function
- Item12 ..... LED for alarms  
LED on or flashing with alarm present
- Item13 ..... Display of automatic or manual mode  
LED flashes: manual control  
LED on: automatic control
- Item14 ..... LED for remote on/off mode  
LED flashes: remote on/off by MIN contact for main water  
LED on: remote on/off by external contact
- Item15 ..... LED for servicing  
LED flashes: system in service menu
- Item16 ..... LED for alarms on the display  
LED on or flashing with alarm present
- Item17 ..... Connection of display to PLC  
LED on, connection OK
- Item18 ..... LED for display  
LED on, display in operation

### DISPLAY MENU



# WIRING DIAGRAM

Power Supply			
L	N	PE	
1	2	3	Power supply - input
4	5	6	Power supply - output
7	8	9	
10	11	12	HCl dosing pump
13	14	15	NaClO2 dosing pump
16	17	18	
19	20	21	
22	23	24	Solenoid valve: bypass/pump
25	26	27	
28	29	30	
Floating Outputs			
Common point	NC contact	NO contact	
31	35	33	Fault
32	36	34	Adv. empty alarm HCl/NaClO2
37	41	39	Automatic
38	42	40	Tank run dry
Inputs			
+8V	GND	IN	
59 brown	60	61 blue	Dosing controller NaClO2
63 brown	64	62 blue	Dosing controller HCl
65	66	67	
69 brown	70 white	68 green	Bypass water impeller meter
+12V	GND	IN	
43		44	Batch tank...ClO2 overflow
45		46	Batch tank...ClO2 max.
47		48	Batch tank...ClO2 min.
49		50	Batch tank...ClO2 run dry
51 brown		52 white	Advanced empty alarm NaClO2
		53 green	Empty alarm NaClO2
		54 green	Empty alarm HCl
55 brown		56 white	Adv. empty alarm HCl
57		58	
71 white	72 brown	73 green	Hall-effect sensor, NaClO2 pump
75 white	76 brown	74 green	Hall-effect sensor, HCl pump
77 white	78 brown	79 green	
	81	80	
83		84	Contact input, water meter
85		86	Remote on/off
87		88	Fault in gas warning equipment
89		90	Contact, main water min.
91		92	
Analog Signal			
Shield	IN/OUT -	IN/OUT +	
95	94 IN -	93 IN +	Analog IN
96	98 OUT -	97 OUT +	Analog OUT

