

WALLACE & TIERNAN® MULTI-FUNCTIONS-CONTROLLER
MFC
from version V:2.00

SHORT OPERATING INSTRUCTIONS



Please note

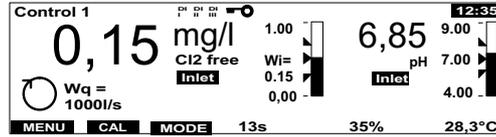
Access and work on system only by authorized and trained personnel!
Please read the detailed instruction manual!
This short operating instructions does not replace the full operating manual!

Password

The system runs with up to two passwords:

- The system password permits full access to all setting options.
- The calibration password only permits access to the calibration menu and the display of the menus.
- Even if the code is active the operator can always change the operation mode MANUAL/AUTOMATIC. In the manual mode the dosing signals are switched off.

Basic display



Indicating elements

CONTROL 1 System name

DI
I **Digital input 1 active**
Sample water stopped or digital input 1 active
Flashing: Delay running, sample water stop
Permanent: Delay elapsed, Controller stopped/DI I Function active

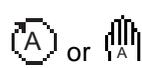
DI DI
II III **Digital input 2 or 3 active**
The symbols indicate that a function has been selected for the digital signal and that a signal is applied.

 **Password active**
The defined password must be entered to permit modification of parameters and for calibrating the device.

12.35
 **Time**
"AUTO" operating mode active
The control unit is running in automatic mode. Dosing is performed automatically.

 **"MANUAL" operating mode active**
Dosing can be set manually.

 **"System stopped" operating mode**
Dosing is switched off.

 **"Adaption" operating mode active during "Automatic" or "Manual"-operation**
Automatic determination of the control parameters for single feedback closed loop control is active.

 **Bar graph**
This indicates a measured value, the measuring range (column height), limit values (▲ and ▼) as well as the setpoint, Wi (internal setpoint), We (external setpoint), Di (internal setpoint), De (external setpoint) (▶).

13s
Feed delay
The time until dosing resumes after interruption.
To stop press the key (▼).

100%
Positioner feedback (Ym)
If the display blinks, the positioner is in manual mode and cannot be activated.

28.4°C
Sample water temperature

mA ? 1/5
Error indication active (display bottom right)
The error can be specified with the table in the instruction manual MFC. The number combination states the series number of the error message and the total number of error messages.

1.1.1
Display number (display bottom right)
This number enables allocation to a menu and stipulates the sequence within the menu.

PI 85 s
YPI stop time display. The time it takes after a spike in the flow rate for the single feedback closed loop control in the compound-loop-control to reactivate.

Softkeys

STOP	Stop the adaptation procedure or the calibration of the positioner.
SELECT	Select one or more options from the list provided.
CHANGE	Change the operating mode (MANUAL/AUTO).
ENTER	Confirm your selection.
CAL	Select the "Calibration" menu.
LOCK	Activate password protection.
MENU	Select a menu.
MODE	Select the "Mode" menu.
UNLOCK	Start deactivation of password protection.
BACK	Move up one level.
-->	Open next display.

Keys



Softkey

- Activate the function shown on the graphic display with the keys.



Up

- Move up one level.
- Display the previous option.
- Increase the value.



Down

- Move down one level.
- Display the next option.
- Decrease the value.



Left/right

- Change the column in the menu.
- Change the position in the displayed value (cursor menu).
- Move forwards or backwards by seven hours in the line diagram.



Escape

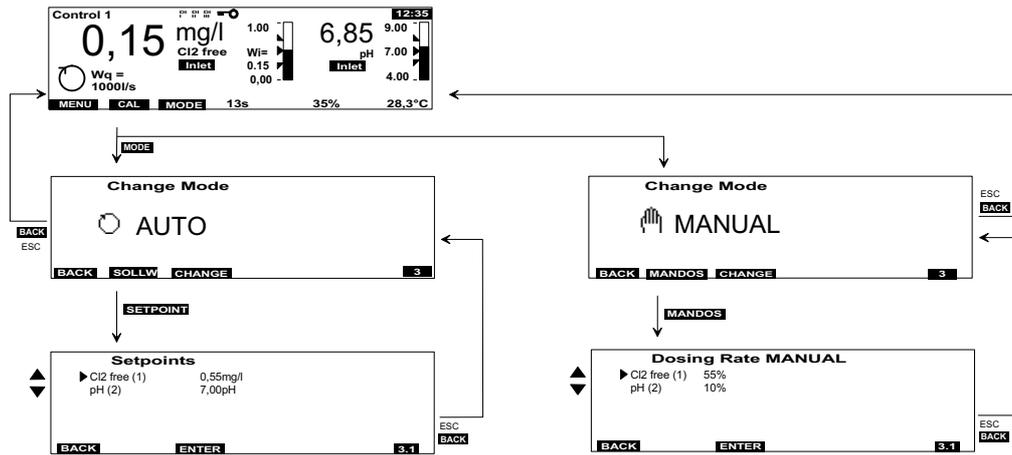
- Cancel the entry without saving the new value.
- Move up one menu level.



Acknowledge

- Acknowledge alarm message.
- Set the running delays to zero.
- Delete adaption error.
- Acknowledge max. dosing time to reactivate dosing.

Change manual-automatic



Automatic/manual => AUTO/MANUAL => change with softkey „CHANGE“

Direct access to the setpoints in automatic mode
 => call the menu with the softkey „SETPOINT“
 => select the dosing signals with the keys up/down/left/right
 => change the settings and confirm with „ENTER“

Direct access to the setpoints in manual mode
 => call the menu with the softkey „HANDDOS“
 => select the dosing signals with the keys up/down/left/right
 => change the settings and confirm with „ENTER“

Error messages

Error message	Cause	Remedy
Measured value display flashes	Measured value outside the measuring range.	Select different range. Check calibration.
DI I flashes	Sample water flow recently insufficient (delay running).	Check the sample water flow (approx. 33 l/h). Clean or replace the preliminary filter.
DI I permanent display	Sample water flow insufficient for some time (delay elapsed).	Multi-sensor incorrectly connected or defective.
	Controller stopped, e.g. during changeover from manual to automatic operation, digital input	Wait for feed delay to elapse or terminate prematurely with the "Acknowledge" key. Check digital input.
The other error messages are displayed in plain text with "?" (bottom right in the display).		

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