

Address

192.168.1.100

Port

502

Timeout (ms)

25

Bytes Written (Per Command)

0

Bytes Written (Total)

0

## Air Filled Control Lines



Low Pressure Control  
challes 4-8 Should Remain  
Unused. If Additional Air  
Lines Are Required, The  
Valves Can Be Found Under  
This Tile.

## Multiplexer



## Inflow Speed Regulators



## Ring Control



## Misc.



A Total Of 30 Valves (And  
Thus Switches) Exist.  
Current Microfluidic Devices  
Only Require 24 Control  
Lines. As Such Valve 30 Has  
Been Relegated.

## Experimental Sequence

Perform  
Experiments

## Channel Selection

Elution Buffer

2

Fluorophore

1

FB

8

## Set Desired RR

Elution Buffer RR

0,25

Fluorophore RR

0

FB RR

0,75

## RRs for Multiple DNA Concentrations

DNA Channel

5

DNA High RR

0,25

## Hexadceimal Values for WAGO Units 1-2, 3-4, 5-6, 7-8

Units 1/2

0

Units 3/4

0

Units 5/6

0

Units 7/8

0

TCP Output

TCP Error Out

status



source

code

0

STOP

## Mixing Processes

Number Of  
Mix Cycles

1

Interval (min)

1

Mix  
Chambers

Cycles completed

0

Time since start (sec)

0

## Flushing

Flush  
Channel

1

Flush  
FastFlush  
Slow

Progress #

0

Progress

0

## Loading

Load  
Channel

1

Load  
FullLoad  
20%

Ring 1

Ring 2

Ring 3

Ring 4

Ring 8

Ring 7

Ring 6

Ring 5

Progress

0

## Perform Initial Calibration

Perform Initial Calibration

Refresh Ratio

0

Duration (min)

0

Running Calibration



Number of Mixing Cycles

4

Time between Mixing Cycles

0

Number of Dilution Steps

10

Elution Buffer Channel

2

Fluorophore Channel

1

Number of Inflow Steps

15

Refresh Fraction [%]

30

Number of Mixing Cycles Initialisation

4

Time between Mixing Cycles Initialisation

0

Number of Dilution Cycles

120

Running Experiments

Time since  
start (sec)

0