

# QUICKSTART MCS®

## START-UP - STEPS

- 1 Select Zone or Group
- 2 Select Operating Mode  
OFF – Control – Manual
- 3 Set Setpoints
- 4 Change Parameters  
a) Zone Parameters  
b) System Parameters
- 5 Activate Outputs

### 1 SELECT ZONE OR GROUP

	SINGLE ZONE	GROUP	ALL ZONES
1	Zone-No.	G1 ... G8	ALL
	[Down] [Up]	[Down] [Up]	[Down] [Up]
	[Home]	[Home]	[Home]
	[Right]	[Right]	[Right]

#### OPTIONAL: DEFINE GROUPS

The assignment of a zone to a group is done via the zone parameter P31 .  
The value in P31 indicates which group is assigned to the zone .

**Example: Zone 4 in Group 5**

1	4	[Down] [Up]	3	4	[Down] [Up]
	[Home]	[Home]		[Home]	[Home]
	[Right]	[Right]		[Right]	[Right]
				P31	[Right]
					[Home]
					[Right]
					[Home]
					[Right]
					[Home]
					[Right]
					[Home]
					[Right]

Identification Code necessary: 22

	IC?	[Down] [Up]		4	[Down] [Up]
	[Home]	[Home]		[Home]	[Home]
	[Right]	[Right]		[Right]	[Right]
	22	[Down] [Up]		5	[Down] [Up]
	[Home]	[Home]		[Home]	[Home]
	[Right]	[Right]		[Right]	[Right]
	P31	[Down] [Up]		P31	[Down] [Up]
	[Home]	[Home]		[Home]	[Home]
	[Right]	[Right]		[Right]	[Right]

### 2 SELECT OPERATING MODE

1	[Down] [Up]	2	[Down] [Up]	3	[Down] [Up]
	[Home]		[Home]		[Home]
	[Right]		[Right]		[Right]
	OFF	[Down] [Up]		P=?	[Down] [Up]
	[Home]	[Home]		[Home]	[Home]
	[Right]	[Right]		[Right]	[Right]

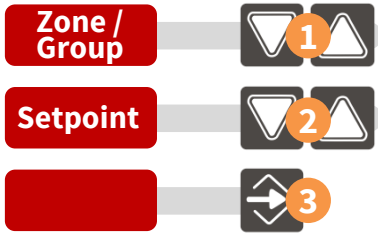
OFF = Aus → Control Mode → Manual Mode

Press & Hold (OFF) → Control Mode

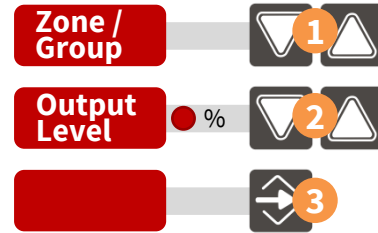
Press & Hold (P=?) → Manual Mode

### 3 SET SETPOINT / OUTPUT LEVEL

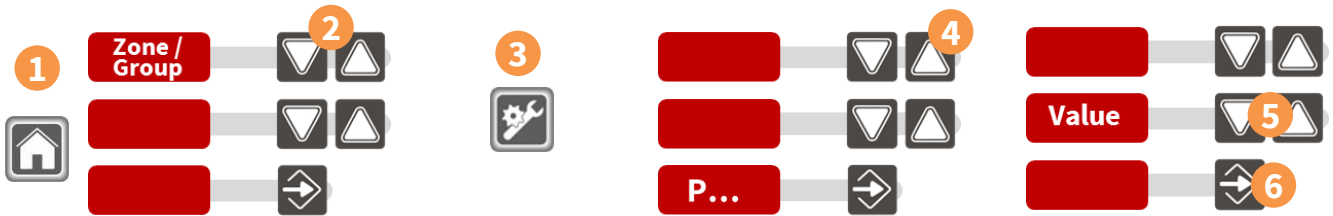
#### CONTROL MODE



#### MANUAL MODE



### 4 CHANGE ZONE PARAMETERS



**The most important parameters:**

- P01: L-Alarm Alarm Low Temperature Limit (LED stripe = red)
- P02: H-Alarm Alarm High Temperature Limit (LED stripe = red)
- P03: DEV-Alarm Deviation Alarm from Actual Value (LED stripe = yellow)

- P25: Boost-Offset Increase of Setpoint Value by x Degrees
- P26: Standby Decrease of Setpoint Value to x Degrees

### 5 ADDITIONAL FUNCTION KEYS

#### OUTPUTS ON / OFF



Outputs On /  
Outputs OFF

#### BOOST



Temperature  
raise



#### STANDBY



Temperature  
lower

#### DISPLAY ZONES



Actual Value	X	%	Output Level
Setpoint	W	I	Heating Current
Control Deviation	ΔT	Q	Control Quality

#### HOME



Selection  
Zone 1

### 6 WARNINGS AND ALARMS (ABSTRACT)

Thermocouple broken	No Current Flow	Triac defect	Overtemperature	Low Temperature	No Power Supply
			<div style="border: 1px solid black; padding: 10px;"> <p>Switching off all outputs or single zones does not protect against hazardous voltages at the outputs! Before working on the heating elements the associated plug connections or the entire MCS® device have to be disconnected from the mains voltage! Before opening the MCS® device this has to be disconnected from the mains voltage!</p> </div>		
Temperature below Tolerance Range	Temperature above Tolerance Range	Zone OFF			