



**memmert**  
Experts in Thermostatics

# AtmoWEB

REST INTERFACE

100% ATMOSAFE. MADE IN GERMANY.

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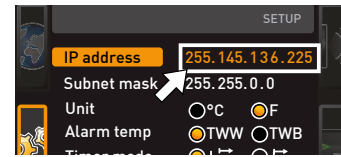
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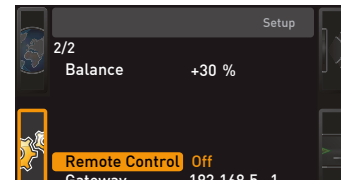


## General Information

This document regards to the Memmert generation 2012 chambers. The device firmware version has to be at least 2.2.07. The AtmoWEB service is listening on port 80. The device's IP address can be displayed via MENU → SETUP:



The minimal required permission listed in the tables below have to be configured in the settings menu of your device (MENU → SETUP → Remote Control):



## Parameter Description

Basically the device answers with applied values. If answered values won't match with sent values, they may be outside the valid range or the permissions on the device forbid writing setpoints/alarms (MENU → SETUP → Remote Control).

The interface implements the GET-Method only. It is used for reading and writing values. For writing, the value after the "=" is applied. For reading, the "=" is followed by nothing. For further illustration, refer to the examples section.

## Special Answers

Answer	Description
N/A	Indicates no support by your device configuration.
N/D	Not defined internally.
null	No value.
PermissionDenied	No permissions (Remote Control)
_Range	Valid range (min/max) for setpoint values.
	Read only.
	Returned automatically while working with setpoint values.



## Temperature

Parameter	Description	Required permission	Extra information
TempSet	Setpoint value.	r--, rw-	
TempSet_Range	Valid range for setpoint values on your device.		
Temp1Read	Temperature measurement value from temperature sensor 1. This usually is the main temperature sensor.	r--	
Temp2Read	Temperature sensor 2. Freely positionable.	r--	
Temp3Read	Temperature sensor 3. Freely positionable.	r--	
Temp4Read	Temperature sensor 4. Freely positionable.	r--	
AlTempLo	Min alarm.	rwa	
AlTempLo_Range	Valid range for min alarm.		
AlTempHi	Max alarm.	rwa	
AlTempHi_Range	Valid range for max alarm.		

## Humidity

Parameter	Description	Required permission	Extra information
HumSet	Setpoint value.	r--, rw-	
HumSet_Range	Valid range for setpoint value on your device.		
HumRead	Measurement value.	r--	
AlHumLo	Min alarm.	rwa	
AlHumLo_Range	Valid range for min alarm.		
AlHumHi	Max alarm.	rwa	
AlHumHi_Range	Valid range for max alarm.		

## Vacuum

Parameter	Description	Required permission	Extra information
VacSet	Setpoint value.	r--, rw-	
VacSet_Range	Valid range for setpoint value on your device.		
VacRead	Measurement value.	r--	
AlVacLo	Min alarm.	rwa	
AlVacLo_Range	Valid range for min alarm.		
AlVacHi	Max alarm.	rwa	
AlVacHi_Range	Valid range for max alarm.		



## CO<sub>2</sub>

Parameter	Description	Required permission	Extra information
C02Set	Setpoint value.	r--, rw-	
C02Set_Range	Valid range for setpoint value on your device.		
C02Read	Measurement value.	r--	
A1C02Lo	Min alarm.	rwa	
A1C02Lo_Range	Valid range for min alarm.		
A1C02Hi	Max alarm.	rwa	
A1C02Hi_Range	Valid range for max alarm.		

## O<sub>2</sub>

Parameter	Description	Required permission	Extra information
O2Set	Setpoint value.	r--, rw-	
O2Set_Range	Valid range for setpoint value on your device.		
O2Read	Measurement value.	r--	
A1O2Lo	Min alarm.	rwa	
A1O2Lo_Range	Valid range for min alarm.		
A1O2Hi	Max alarm.	rwa	
A1O2Hi_Range	Valid range for max alarm.		

## Flap

Parameter	Description	Required permission	Extra information
FlapSet	Setpoint value.	r--, rw-	
C02Set_Range	Valid range for setpoint value on your device.		



## Fan

Parameter	Description	Required permission	Extra information
FanSet	Setpoint value.	r--, rw-	
FanSet_Range	Valid range for setpoint value on your device.		
FanRead	Measurement value.	r--	Only on devices with fan speed monitoring.

## Switch

Parameter	Description	Required permission	Extra information
SwASet	Switch A state.	r--, rw-	0 off, 1 on.
SwBSet	Switch B state.	r--, rw-	0 off, 1 on.
SwCSet	Switch C state.	r--, rw-	0 off, 1 on.
SwDSet	Switch D state.	r--, rw-	0 off, 1 on.

## Door

Parameter	Description	Required permission	Extra information
DoorOpen	Indicator for open door.	r--	0 closed, 1 open.
DoorLock	Indicator for locked door.	r--, rw-	0 unlocked, 1 locked.

## Light

Parameter	Description	Required permission	Extra information
LightDay	Daylight setpoint value.	r--, rw-	0 off, 100 on.
LightUV	UV-light setpoint value.	r--, rw-	0 off, 100 on.
LightLED	LED-light setpoint value.	r--, rw-	0..100.



## Program Mode

Parameter	Description	Required permission	Extra information
CurOp	Current selected Mode.	r--	Program, Idle, Timer, Manual.
InfoTemp	Name of currently executed temperature ramp.	r--	
InfoHum	Name of currently executed humidity ramp.	r--	
InfoMsg		r--	
Info		r--	
ProgStart	Name of program to start.	rw-	Program Name
ProgStop	Stop program.	rw-	=1
ProgExit	Exit currently running program.	rw-	=1

## Misc

Parameter	Description	Required permission	Extra information
Defrost	Configure defrost interval for dehumidify peltier element.	r--	
Time	ISO 8601 compliant device time.	r--	
TimeZone	Device' time zone.	r--	
TimeDST	Daylight saving time.	r--	
SWRev	Device' software version.	r--	
SN	Device' serial number.	r--	
DevType	Device type.	r--	
RC	Remote control permissions like configured in the device settings menu.	---	--- disabled, r-- Read only, rw- Read and write, rwa Read, write and write alarms.



## Examples

### Full Example Answer

Request: [http://\[IP address\]/commands.cgi](http://[IP address]/commands.cgi)

```
"TempSet":68.4,
  "TempSet_Range":{
    "min":0.0,
    "max":70.0
  },
  "Temp1Read":68.4,
  "Temp2Read":"N/A",
  "Temp3Read":"N/A",
  "Temp4Read":"N/A",
  "HumSet":56.7,
  "HumSet_Range":{"
    "min":10.0,
    "max":90.0
  },
  ""HumRead":56.3,
  "CO2Set":"N/A",
  "CO2Read":"N/A",
  "O2Set":"N/A",
  "O2Read":"N/A",
  "FlapSet":"N/A",
  "FanSet":"N/A",
  "FanRead":"N/A",
  "SwASet":"N/A",
  "SwBSet":"N/A",
  "SwCSet":"N/A",
  "SwDSet":"N/A",
  "DoorOpen":"N/A",
  "DoorLock":"N/A",
  "LightDay":"N/A",
  "LightUV":"N/A",
  "LightLED":"N/A",
  "Defrost":"N/A",
  "AlTempLo":-10.0,
  "AlTempLo_Range":{
    "min":-10.0,
    "max":80.0
  },
  "AlTempHi":80.0,
  "AlTempHi_Range":{
    "min":-10.0,
    "max":80.0
  },
  "AlHumLo":0.0,
  "AlHumLo_Range":{
    "min":10.0,
    "max":90.0
  },
  "AlHumHi":100.0,
  "AlHumHi_Range":{
    "min":10.0,
    "max":90.0
  },
  "AlCO2Lo":"N/A",
  "AlCO2Hi":"N/A",
  "AlO2Lo":"N/A",
  "AlO2Hi":"N/A",
  "InfoTemp":null,
  "InfoHum":null,
  "InfoMsg":null,
  "Info":null,
  "CurOp":"Manual",
  "ProgStart":null,
  "ProgStop":null,
  "ProgExit":0.0,
  "Time":"2016-01-14T10:09:19+01:00",
  "TimeZone":"+01:00",
  "TimeDST":0.0,
  "SWRev":"02.01.15",
  "SN":"W614.0194",
  "DevType":"HPP 260",
  "RC":"rw-",
```





## Read Values

Read Temp1Read and read TempSet.

Request: `http://[IP address]/atmoweb?Temp1Read=&TempSet=`

```
"Temp1Read": 64.4,  
"TempSet": 64.4,  
"TempSet_Range": {  
  "max": 70.0,  
  "min": 0.0  
},
```

## Write Values

Write TempSet and read Temp1Read.

Request: `http://[IP address]/atmoweb?TempSet=37.0&Temp1Read=`

```
"Temp1Read": 64.3,  
"TempSet": 37.0,  
"TempSet_Range": {  
  "max": 70.0,  
  "min": 0.0  
},
```

## Programs

Start Program

`http://[IP address]/atmoweb?ProgStart=MyProgram`

```
"ProgStart": "MyProgram",
```

## Stop Program

`http://[IP address]/atmoweb?ProgStop=1`

```
"ProgStop": "1",
```









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AtmoWEB REST Interface

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