

M-RT-s module configuration guide

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An MR-T-s module is used to regulate the temperature in rooms, it allows one to control multiple heating zones (from 1 to 32) and it makes it possible to create schedules and automate the heating system.

Configuration in the Ampio Designer

Use the Ampio Designer application for the configuration process.

In the list of modules, select a module from the M-RT family and navigate to the options (gear icon).

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	25	1	M-SERV-s, PCB: 9 (192.168.74.201)	11622	SERV	•	> ©
	1E48	1E48	M-RT-4s, PCB: 3	10553	TEMP CONTROL	÷	ن ې (

After accessing the *Parameters* tab, you can, among other things, synchronise the time with another module (e.g. from the M-SERV family).

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Functionalities	Time synchronization	Time synchronization				
Conditions	Temperature controller					
	Heating failure	Time synchronization				
Parameters		M-SERV-s MAC: 1 - SERV \Diamond				
	Restore factory parameters Send parameters to the module					
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	1e48 - TEMP CONTROL X X					

It is also possible to set the controller's response behaviour in the event of a faulty temperature sensor in the *Heating Failure* sub-tab.

Heating failure	
Zone error state	
Deactivate heating	\$
Activate heating	
Deactivate heating	

In the sub-tab *Temperature controller* you can see, among other things, all available zones, you can give them a name, select the type of controller for the zone, and select the module from the CAN network from which the current temperature

will be read. Next, you select the number of the temperature sensor for this module. Based on the data from the sensor, the controller manages the heating in the zone. You can enter the desired temperature for day and night (*Comfort* and *Economic*). Then, modify the hysteresis affecting the rate of switching the heating on/off.

Temperature controller 1	× IONS LOGIC APPLICATION	SETTINGS					
Zone initial state							
Heating	•						
Eco/Trip Temperature Comfortable temperatu	ure	⑦ Temperature controlle	er				
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In addition, by entering the schedule, it is possible to manually determine which hours are considered day and which are considered night for each day of the week.

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01:30	C	C	C	C	C	C	C
02:00	C	C	C	C	C	C	C
02:30	C	C	C	C	C	C	C

In the Functionalities tab, after navigating to Regulator, we can preview the current status of the heating zones.

â MAIN ∠ SERV	(0_25) ×
Functionalities	Inputs & outputs Flag 8-bit flag 16-bit flag Roller blinds
Conditions	Diagnostics Time MLED OC SATEL
Parameters	1. Name Location .
Licence	office
	Active OFF
	Set temp
	19.0
	Temp 25.5
	Diff -6.5
	Mode A
	Running OFF
	Block OFF
	Cooling OFF

Whereas in the *Time* sub-tab, you will see the currently set time.

Functionalities	Flag Temperatu	ire controller Time			
Conditions				Q Search	
Parameters	NUMBER	PREFIX	DESCRIPTION	LOCATION	VISUAL
	1	Date and time			5/1/2024 12:38
	1	Year			24
	1	Month			1
	1	Day of month			5
	1	Weekday			5
	1	Hour			12
	1	Minute			38
	1	Day/night			1

Conditions

The M-RT-s module additionally offers the possibility of creating time-dependent conditions or based on heating zone control in the configurator.

The conditions can be activated, for example, at night, during a specific month or at a specified time.

#	TRIGGERS	OUTPUT TYPE	INPUT NUMBERS	FUNCTION		ACTOR	OUTPUT TY	PE OUTPU	T FUNCT	ION	TYPE	
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Responses of the device

Using conditions, we can also trigger certain functions for the M-RT-s controller, e.g. a change in the setpoint until the next change in the schedule.

SERV	≎ 🚺 🗙 🔁 🗙 Simple	JT ≎ Temperature ≎	€ Active ×	≎ Set until:≎ 🚳 🔅
				Set for a duration of time
				Set until schedule changes
				Change the holidays mode
				Activate the schedule
				Set up a lock
				Set up holidays
				Switch holidays off

Configuring the mobile app

In order to control the heating of the M-RT-s module from the Ampio UNI mobile application, add the corresponding object to the group.

From the left-hand side of the screen, expand the list for the M-RT-s device and drag the relevant zone to the selected group in the second column, then select *Save* in the top right-hand side of the screen.

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> (WL-OC-RGBW1p) (2)									

Configuration in the Smart Home Configurator and Smart Home Manager*

*from January 2024, the Smart Home Configurator and Smart Home Manager softwares are no longer being developed. It is recommended to use them only in substantiated instances.

On the list of modules, select the M-RT-s module and open Device parameters.

💏 Ar	ipio SmartH Jevice Pro	ome device	e configurator ver. 5.0.0.4183											- 0	×
List of Se	online devi arch below:	ces:	congouge		Search column:	Device name	~	۹ ۹	Search for description	ns		Your	software is up to date	Remote Support -	download
On	MAC	Local	▲ Type	Name		Pcb	Soft	Buffer	U/Temp	Pps	Prot	Status			
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	1%	PCB: 2	SOFT: 321 SN: AB0JDYOS (0,24	(bps 0,8% Max: 1	13,31kbps 45,3%)										

In the *Basic* tab, you can, for example, download the current time from a computer to the module, or enter the geographical location of an object, which helps in setting the right time for sunrise and sunset. There is also an option to set the controller's behaviour in case the temperature sensor breaks, as well as an option to sync time with another module.

Device parameters-MAC: 0000A4DE/LOC: 0000A4DE ver: 5.0.0.4183	_		×
Basic Temperature controller FLAGS			
Behavior of the controller with the temperature sensor encoded: Turn out the activity of the zone Device time: 2021-12-23 Thursday 10:32 Set with PC			
Time synchronization: 00000001¦ ¦ OFFLINE			
Geographical location [+/-180,00°]			
Latitude: 53,00 Longitude: 15,00 Time zone [/- 720min]: 60			
🖉 Load 🧭 Get names	🚺 Sen	d	

In the *Temperature controller* tab, you will find, for example, all available zones, which can be given names, you can select the regulator type for a specific zone, and select a module from the CAN network, from which the current temperature will be obtained. You will need to select the number of temperature sensor for that module next. On the basis of the obtained data, the controller regulates heating in a given zone. You will then also set the day and night temperatures. Histeresis, which manages the speed of activation/de-activation can also be modified. On top of that, it can also be manually determined, what hours constitute day, and which night.

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Schedule settings can be copied to other zones, or each zone can be set up individually.

The Flags tab provides the capability of managing flags, just as it is the case with every other module of the Ampio system.

Conditions

The M-RT-s module enables the function of creating conditions in the configurator that are dependent on time or on the heating zone controls.

Such conditions can, for example, be activated at night, in a given month, or at a certain hour.

Turne une 🕒 Clark 🔳 There Bin	Features
Temps. reg. Clock Flags Bin eal-time clock: 2021-12-23 Thursday 10:40 Day Set with PC Year: = 2021 Month: = 2021 Day: = 23 Day of week: = Thursday Day/Night: Day Hour: = 09 Minute: = 37 37	Type of logical operation: (AND) all Type of condition: Basic function Basic function

The image below shows how a condition is created from an active zone, checking whether heating for the zone is active, or not.

The condition-MAC: 0000A4DE/LOC: 0000A4I	DE ver: 5.0.0.4183				×
The definition of forcing information.	. Warning!!! in this wi	ndow, we only mark wi	hat we want to resp	pond to.	
🏅 Temp. reg. 🕒 Clock 📘 Flags Bin				Features	_
Zone control Zone Monitor				Type of logical operation:	
1 Description Set: 18,0 Yeas: 24,3 1 Ode: Auto	2 Description Set: Act Iode:	ND 3 Description ND Act	Set: ND 4eas: ND 4ode: ND	(AND) all V Type of condition:	
4 Description Set: ND Meas: ND 1 Act 10de: ND	5 Description Set: Meas: 1ode:	ND ND ND ND Act	Set: ND Meas: ND Mode: ND	Basic function V	
7 Description Set: ND Heas: ND Heas: ND Hode: ND Act	8 Description Set: Meas: Act Act	ND ND ND ND Act	Set: ND Yeas: ND Yode: ND		
10 Description Set: ND 1: Act 4ode: ND	Description Set: Meas: 1ode:	ND 12 Description ND Act	Set: ND Meas: ND Mode: ND		
13 Description Set: ND 14 Act 4ode: ND 1	Act Set: 4 Description Set: 4 Meas: 4	ND 15 Description	Set: ND Meas: ND Mode: ND		
16 Description Set: ND 12 Veas: ND 4ode: ND 12	7 Description Set: Meas: Act lode:	ND 18 Description	Set: ND Meas: ND Mode: ND		
19 Description Set: ND Yeas: ND 100 20 Act 10de: ND 10	Description Set: Meas: Act Idde:	ND 21 Description ND Act	Set: ND Meas: ND Mode: ND		
22 Description Set: ND Yeas: ND 100000000000000000000000000000000000	Bescription Act Act	ND 24 Description ND Act	Set: ND Yeas: ND Yode: ND		
25 Description Set: ND Heas: ND Heas: ND Hode: ND 24 Act Hode: ND 10	6 Description Set: Meas: 10de:	ND 27 Description ND Act	Set: ND Meas: ND Mode: ND	Set names	
28 Description Set: ND 29	9 Description Set:	ND 30 Description	Set: ND V	Save Names Accept Close	
					_

Another capability of creating such conditions is comparing temperatures (the set temperature, or the measured temperature) to assumed values.

Temp. reg. (Clock Flags Bin	. , .		Features		
Zone Monitor one selection: Zone No. 1 Set temp. (-99,9 ., 125,5)	Meas. (-99,9 125,5)	Exhibit (-10,0 25,5)	Type of logical operation: (AND) all ~ Type of condition: Basic function		~
Meas. 18,0°C = Zone control Active Passive	Meas. = V Adj. mode Heating V Heating	Meas. -6,3°C = Oper. mode Sched. Sched.			
			Cet names	Accept	X

Device's response

With the use of conditions, you can also trigger some functions for the M-RT-s' driver, e.g. an alteration of the value set for the next rescheduling.

Temp. reg.	Binary flag	gs 🏠 E	vents						_	
1 Description	Set: Meas: Mode:	18,0 24,4 Auto	2 Description	Set: Meas: Mode:	ND ND ND	3 Description	Set: Yeas: 1ode:	ND ND ND	^	Function: MRT Inc/Dec ~
4 Description	Set: 4eas: 4ode:	ND ND ND	5 Description	Set: Meas: Mode:	ND ND ND	6 Description	Set: Yeas: 1ode:	ND ND ND		Operation: + Increment (increase) to rescheduling ~
7 Description	Set: 4eas: 4ode:	ND ND ND	8 Description	Set: Meas: Mode:	ND ND ND	9 Description	Set: Yeas: 4ode:	ND ND ND		Increment interval [0,01 -2,55] s: 0,01 OK Strate [0,1, 25,5] 9C:
LO Description	Set: 4eas: 4ode:	ND ND ND	11 Description	Set: Meas: Mode:	ND ND ND	12 Description	Set: Yeas: 4ode:	ND ND ND		0,1 OK Limit value
L3 Description	Set: Meas: 1ode:	ND ND ND	14 Description	Set: Meas: Mode:	ND ND ND	15 Description	Set: Meas: Aode:	ND ND ND		119,9
L6 Description	Set: Meas: 1ode:	ND ND	17 Description	Set: Meas: Mode:	ND ND ND	18 Description	Set: Meas: Aode:	ND ND ND		
19 Description	Set: Meas: 4ode:	ND ND ND	20 Description	Set: Meas: Mode:	ND ND ND	21 Description	Set: 4eas: 4ode:	ND ND ND		
22 Description	Set: 4eas: 4ode:	ND ND ND	23 Description	Set: Meas: Mode:	ND ND ND	24 Description	Set: Yeas: 4ode:	ND ND ND		
25 Description	Set:	ND	26 Description	Set:	ND	27 Description	Set:	ND	~	

Other functions include, among others, changing the heating/cooling state, or setting a *Departure* mode.

Device reaction-MAC: 0000A4 Definition of module wor Temp. reg. Binary f	DE/LOC: 00 king mod lags 🙀 E	000A4DE ver: 5.0.0.41 e: e:	183						>
> 1 Description Set Meas 10de	: 18,0 : 24,3 : Auto	2 Description	Set: Meas: Mode:	ND ND ND	3 Description	Set: Yeas: 1ode:	ND ND ND	Â	Function: MRT Basic V
4 Description Set 4 Description Set 4 Meas 4 10de	: ND : ND : ND	5 Description	Set: 4eas: 4ode:	ND ND ND	6 Description	Set: Meas: Aode:	ND ND ND		Operation: Set the value to rescheduling V Set to time value
7 Description Set 4eas 1ode	: ND : ND : ND	8 Description	Set: 4eas: 4ode:	ND ND ND	9 Description	Set: Meas: 1ode:	ND ND ND		Set the value to rescheduling Departure, change state On schedule
10 Description Set Veas 10 Oescription Set	: ND : ND : ND	11 Description	Set: 4eas: 4ode:	ND ND ND	12 Description	Set: Meas: Mode:	ND ND ND		Departure On Departure Off Set value permanently
13 Description Set Vleas 10 de	ND ND ND	14 Description	Set: 4eas: 4ode:	ND ND ND	15 Description	Set: Meas: 1ode:	ND ND ND		Set heating Set cooling Change heating/cooling state
16 Description Set Vleas 10de	: ND : ND : ND	17 Description	Set: 4eas: 4ode:	ND ND ND	18 Description	Set: Meas: 1ode:	ND ND ND		
19 Description Set Vleas 10 de	: ND : ND : ND	20 Description	Set: 4eas: 4ode:	ND ND ND	21 Description	Set: Meas: 1ode:	ND ND ND		
22 Description Set 4eas 1ode	: ND : ND : ND	23 Description	Set: 4eas: 4ode:	ND ND ND	24 Description	Set: Meas: 1ode:	ND ND ND		
25 Description Set	ND	26 Description	Set:	ND	27 Description	Set:	ND	~	
						20	Get names		Save Names 🗸 Accept X Close

Control via the Ampio UNI application

In order to control heating in the M-RT-s module via the Ampio UNI mobile app, you have to add an appropriate object to the group.

Create a new object in the ASH Manager and assign it to the M-RT-s device. In the *Number* column you can also select the number of the zone that you wish to control.

Am File Ed	pio Smart Home it Help Successfi	Manager v 1.2.6m	68.76.14				-	· 🗆	×
	Devices	+ Add	Remove	Сору	By All	•		Filter	
	Users	Id	Device	Description	Turn on time[x	Number	Component type	Settings	
9	Locations	475	c6df:	wyi 105	0	105	Relay	Settings	
	~	476	c6df:	wyj 106	0	106	Relay	Settings	
	Groups	477	c6df:	wyj 107	0	107	Relay	Settings	
\square	Objects	478	c6df:	wyj 108	0	108	Relay	Settings	
0	0.010000	479	c6df:	wyj 109	0	109	Relay	Settings	
	Scenes	480	c6df:	wyj 110	0	110	Relay	Settings	
	Crowning	481	c6df:	wyj 111	0	111	Relay	Settings	
	Grouping	482	c6df:	wyj 112	0	112	Relay	Settings	
-{	Relations	483	c6df:	wyj 113	0	113	Relay	Settings	
		484	c6df:	wyj 114	0	114	Relay	Settings	
7	Actions	485	c6df:	wyj 115	0	115	Relay	Settings	
=	Integrations	486	c6df:	wyj 116	0	116	Relay	Settings	
-		487	c6df:	wyj 117	0	117	Relay	Settings	
e	Icons	488	c6df:	wyj 118	0	118	Relay	Settings	
-	, 	489	c6df:	wyj 119	0	119	Relay	Settings	
	Resources	490	c6df:	wyj 120	0	120	Relay	Settings	
		491	c6df:	wyj 121	0	121	Relay	Settings	
		492	C6df:	wyj 122	0	122	Relay	Settings	-
		493	C60T:	Wyj 123	0	123	Relay	Settings	=
		494	cour:	Wyj 124	0	124	Relay	Settings	=
		495	cour:	wyj 125 wrd 126	0	125	Relay	Settings	=
		490	cour.	wyj 120 woj 127	0	120	Relay	Settings	=
		408	c6df:	wyi 128	0	127	Relay	Settings	=
		490	c6df:	wei 1	0	120	Line input	Settings	=
		756	c6e5:	wei 1	0	1	Line input	Settings	=
		1013	c6e4:	wei 1	0	1	Line input	Settings	-
		1270	c6e2:	wej 1	0	1	Line input	Settinas	-
		1527	c6e1:	wej 1	0	1	Line input	Settings	
		1784	c6eb:	wej 1	0	1	Line input	Settings	
		2041	c6e3:	wej 1	0	1	Line input	Settings	
		<u>2042</u>	a4de:RT module	wej 1	0	1	Regulator	Settings	

Open the device's *Settings*, set the object type to *Regulator* and, optionally, change the *Advanced* settings (min. and max. temperature, as well as the regulation step).

A my zone		
File		
Icon ON Select	Icon OFF	
PIN Object type: Regulator		 Advanced
☑ Log every: 60 seconds (0 - data logged when changed) ☑ Show in active devices		
🗌 Block when local connect 🗌 Block when cloud connect 🗌 Hide value on sketch icon 🗋 Hide title in mobi	ile app	
Interpretation 1	: 🗌 Hide menu	(3 dots)
Access rights	T	oggle All
	2	
Heating temperature range: Min: 10 Max: 30 Step: 1.0°C -		
Save Cancel		
Object is deleted	Sav	ve Cancel

Save the object and add it to the correct group in the *Grouping* tab in order to display it in the application.

M Amp	io Smart Home	Manager v 1.2.	бm				- 🗆 ×	
File Edit	Help Successf	ully connected : 19	92.168.76.14					
	Devices	Select Group:	-1 Main Menu		Only grouped	By All		٦
	Users				_			
9	Locations	Belongs	ID	Object name	Device name	Settings	LP	
	Groups	0	477	wyj 100 wyj 107	c6df:	Settings		A
	oroups		478	wyj 108	c6df:	Settings		1
	Objects		479	wyj 109	c6df:	Settings		1
	C		480	wyj 110	c6df:	Settings)	1
	Scenes		481	wyj 111	c6df:	Settings		1
	Grouping		482	wyj 112	c6df:	Settings		1
			483	wyj 113	c6df:	Settings)]
┋┼╸	Relations		484	wyj 114	c6df:	Settings		
1	Actions		485	wyj 115	c6df:	Settings		
1.	Actions		486	wyj 116	c6df:	Settings		
≠ :	Integrations		487	wyj 117	c6df:	Settings		
	-		488	wyj 118	c6df:	Settings		
L.S	Icons		489	wyj 119	c6df:	Settings		
Bì	Recourses		490	wyj 120	c6df:	Settings		
8	Resources		491	wyj 121	c6df:	Settings		
			492	wyj 122	c6df:	Settings		-
			493	wyj 123	c6df:	Settings		-
			494	wyj 124	c6df:	Settings		
			495	wyj 125	c6df:	Settings		
			496	wyj 126	c6df:	Settings		
			497	wyj 127	c6df:	Settings		
			498	wyj 128	c6df:	Settings		
			499	wej 1	c6df:	Settings]	
			756	wej 1	c6e5:	Settings)	
			1013	wej 1	c6e4:	Settings)	
			1270	wej 1	c6e2:	Settings		-
			1527	wej 1	c6e1:	Settings		
			1784	wej 1	c6eb:	Settings	/	
			2041	wej 1	c6e3:	Settings		10
			2042	my zone	a4de:RT module	Settings	3	\forall

At the end, save the configuration on the server, e.g. using the *Ctrl+s* shortcut.

From this moment on, controlling zones will also be possible via the mobile application. You will have the option to change modes in the app. First, set the temperature and then choose the mode:

- automatic
- semi-automatic
- manual
- departure

A detailed description of different modes can be found in the following document: Controlling the temperature in Ampio UNI.



After clicking on the settings icon (gear icon), you can also set up schedules manually in the app. Clicking on the 3 dots, on the other hand, will let you add favourites, display charts, or change between heating/cooling.

