

Weather-compensated heating control, 1 heating circuit

RVL480



Weather-compensated flow temperature control acting on mixing valve with 3-position control for radiator heating system

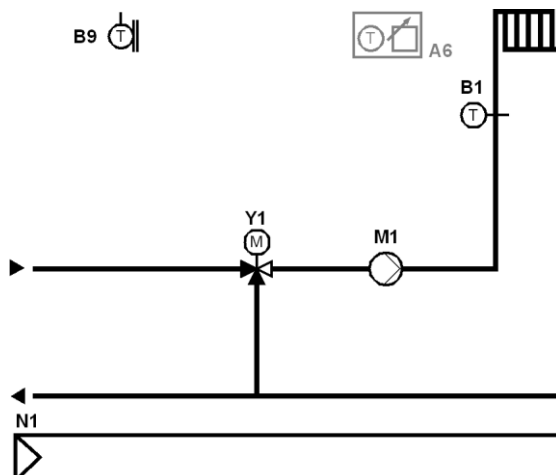
Use

- Multi-family homes
- Commercial buildings

Options

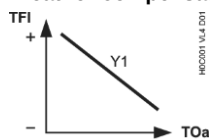
- Room unit

Plant diagram



Function diagrams

Weather-compensated heating



TFI Flow temperature
TOa Outside temperature
Y1 Mixing valve heating circuit

Description of Functions

Basic functions

- Weather-compensated flow temperature control with 3-position actuator acting on mixing valve
- Frost protection for building and plant
- Yearly clock
- Heating program with 3 heating periods per day
- Limitation of flow temperature
- ECO function switches off heating depending on outside temperature

Auxiliary functions

- Display of actual and set temperatures, operating state and faults
- Communication to other LPB devices
- Communication via LPB/OCI600 to BMS
- Signal output DC 0...10 V for passing the heat demand signal to other units

Options

- Room unit for remote control from the living room
- Weather-compensated flow temperature control with room temperature influence
- Room temperature-compensated boost heating and quick setback

Device list

Legend	Type of unit	Data sheet	Product No.	Qty.
N1	Heating controller	N2540	RVL480	1
B1	Strap-on temperature sensor LG-Ni 1000	N1801	QAD22	1
Y1	2- or 3-port valve	*	VV.. / VX.. / M..	1
	3-position valve actuator, AC 230 V	*	S..3...	1

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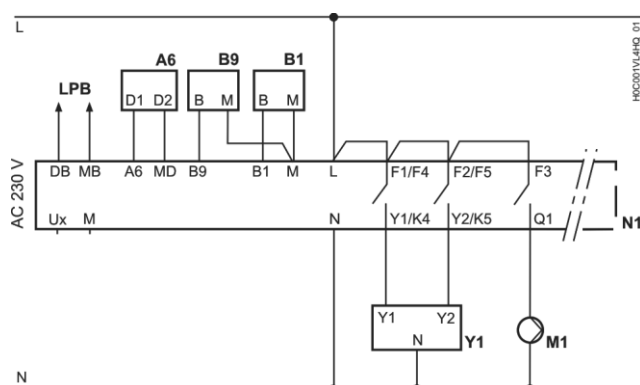
RVL480

Optional	Legend	Type of unit	Data sheet	Product No.	Qty.
	A6	Digital room unit	N1635	QAW50	1
	B9	Outside sensor LG-Ni 1000	N1811	QAC22	1

Variants	Legend	Type of unit	Data sheet	Product No.	Qty.
	A6a	Multifunctional room unit, instructions in en, de, fr, it	N1637	QAW70-A	1
	A6b	Room temperature sensor LG-Ni 1000	N1721	QAA24	1
	B1a	Immersion temperature sensor LG-Ni1000	*	QAE212..	1
	B9a	Outside sensor NTC 575Ω	N1811	QAC32	1
	Y1a	3- or 4-port slipper valve	*	VB.. / VC..	1
		Electromotoric actuators 5...40 Nm for rotary actuators	*	SQK../SQL..	1

* For selection of actuators, valves, etc. refer to the Product Catalog

Connection diagram



M1 Heating circuit pump

Parameter settings	Line	Function, display	Setting
<i>Basic settings</i>			
	51	Plant type	1
	61	Heating limit for NORMAL heating (ECO day, recommended value)	17 °C
	62	Heating limit for REDUCED heating (ECO night, recommended value)	5 °C
<i>Optional settings</i>			
	65	Room temperature source	1
	66	Type of optimization	
	67	Maximum heating-up time	
	68	Maximum optimum shutdown	
	69	Maximum limitation of room temperature	
	70	Effect of room temperature	
	71	Boost of room temperature setpoint with boost heating	