

### UC300(BL)/(DK) – room floor heating controller, temperature, humidity, LCD, knob + RTC, ext. Pt1000 floor sensor, 1 × DO, 1 × DI, RS485

(backlight versions have BL suffix, variants without LCD and knob have /DK suffix)

- 60 words can be read at the same time (i.e. 120 bytes)
- whole range can be addressed bitwise
- the whole memory is mirrored as read-only from address 0x101 (e.g. reg. 1 = 257 dec)

name	register	type (def.)	description	notes
module ID	1 LSB 1 MSB	R	module type identification	UC300 ... 0302hex UC300/DK ... 0334hex UC300BL ... 0337hex
firmware	2 LSB 2 MSB	R	firmware version	
status LSB	3 LSB	R, W RAM	<p>module status lower byte</p> <p><b>Init EEPROM</b> follows if the INIT switch was ON at power up, and if INIT switch was OFF at setting bit 4 to 1 (indicated by bit 2 in Status MSB)</p> <p><b>calibration</b> is enabled if the INIT switch was ON at power up, and if INIT switch was OFF at setting bit 7 to 1 (indicated by bit 3 in Status MSB)</p> <p><b>calibration offset</b>: set bit 7 from 1 to 0 and write 1 to bit 5</p> <p><b>calibration span</b>: set bit 7 from 1 to 0 and write 1 to bit 6</p> <p><b>SW reset</b>: enabled (see reg. 1002)</p>	<p><b>bit 0</b> – write to EEPROM enabled</p> <p><b>bit 1</b> – SW reset enabled</p> <p><b>bit 4</b> – init EEPROM</p> <p><b>bit 5</b> – calibration offset</p> <p><b>bit 6</b> – calibration span</p> <p><b>bit 7</b> – calibration enabled (write on bit 5, 6 a 7 only by register write)</p>
status MSB	3 MSB	R, RAM	<p>module status upper byte</p> <p><b>bit 0</b> 0: normal mode 1: init mode</p> <p><b>bit 1</b> 1: at the next EEPROM write attempt will all data be written to EEPROM 0: at the next EEPROM write attempt will received data be written to RAM only</p> <p><b>bit 2</b> – 1 – EEPROM initialized</p> <p><b>bit 3</b> – 0 – calibration disabled – 1 – calibration enabled</p> <p><b>bit 4</b> – reserved</p> <p><b>bit 5</b> – SW reset enable</p> <p><b>bit 6</b> – reserved</p> <p><b>bit 7</b> – commissioning mode (1 ... active)</p>	

address	4 LSB	R, W EEPROM (0x01)	Modbus module address (default = 1)	!!! the change will be effective after restart only (however the register will be set immediately)
baud rate	4 MSB	R, W EEPROM (9600 bps, 13dec)	communication 10 <sup>dec</sup> ... 1 200 bps 11 <sup>dec</sup> ... 2 400 bps 12 <sup>dec</sup> ... 4 800 bps 13 <sup>dec</sup> ... 9 600 bps (default) 14 <sup>dec</sup> ... 19 200 bps 15 <sup>dec</sup> ... 38 400 bps 16 <sup>dec</sup> ... 57 600 bps 17 <sup>dec</sup> ... 115 200 bps	!!! the change will be effective after restart only (however the register will be set immediately)
serial port settings	5 LSB	R, W EEPROM	serial line parameter settings (default = no parity, 1 stop bit)	bit 0-1 ... parity (00 – no parity, 01 – even, 10 – odd) bit 2 ... stop bits (0 – one, 1 - two) !!! the change will be effective after restart only (however the register will be set immediately)
	5 MSB		reserved	
eeprom writes	6 LSB 6 MSB	R, EEPROM	number of EEPROM writing cycles, does not overflow, cannot be reset by INIT nor by any other means	
relay	7 LSB	R, RAM	output relay status (DO1)	bit 0 ... relay 1, heating
inputs	7 MSB	R, RAM	digital input status - physical level of the input regardless of the <b>inputs settings</b> values (the function of input (presence / window) is set in <b>inputs settings</b> register)	bit 0 ... DI1 bit 1 ... reserved bit 2 ... heating demand (PID output heat > 5%)
pid output HEAT	8 LSB	R, RAM	heating controller output	in %, range 0 .. 100%
	8 MSB		reserved	
	9 LSB 9 MSB		reserved	
manual control	10 LSB	R, W, RAM	manual output control; if a bit is set to 1, the output goes to state defined below (see <b>manual heat output</b> ); if set to 0, PID output values apply	bit 0 ... reserved bit 1 ... heat output
push button counter	10 MSB	R, W, RAM	push button counter; after overflow is reset	
manual heat output	11 LSB	R, W, RAM	manual heat output setting (only if the corresponding bit in the <b>manual control</b> register is set)	in %, range 0 .. 100%
	11 MSB	R, W, RAM	reserved	

set temp correction	12 LSB 12 MSB	R, W RAM	setpoint correction set by user; resets at each operation mode change  3.5°C reads 350  (limits are set in the <b>min</b> and <b>max rel. temp correction</b> registers)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
actual temp set point HEAT	13 LSB 13 MSB	R, RAM	actual heating setpoint incl. setpoint correction (reg. 12)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
	14 LSB 14 MSB		reserved	
set day/ comfort heating temp	15 LSB 15 MSB	R, W EEPROM (21°C, 0x0834)	day/comfort mode heating temperature setpoint set by user  (default = 21°C, 0x0834)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
set night/ pre-comfort heating temp	16 LSB 16 MSB	R, W EEPROM (19°C, 0x076C)	night/standby mode heating temperature setpoint set by user  (default = 19°C, 0x076C)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
set depression/ economy heating temp	17 LSB 17 MSB	R, W EEPROM (12°C, 0x04B0)	off mode heating temperature setpoint set by user  (default = 12°C, 0x04B0)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
	18 LSB 18 MSB		reserved	
	19 LSB 19 MSB		reserved	
	20 LSB 20 MSB		reserved	

actual temp	21 LSB 21 MSB	R, RAM	actual temperature measured by the internal sensor incl. correction (see reg. 37, <b>temp sensor corr</b> )	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
actual external (floor) temp	22 LSB 22 MSB	R, RAM	actual floor temperature measured by the external Pt1000 sensor inclusive correction (see reg. 38, <b>external temp sensor corr</b> )	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
set presence mode	23 LSB 23 MSB	R, W EEPROM (comfort/day, 0x0001)	presence status set by user (displayed symbols depend on the configuration register <b>regulator settings</b> (reg. 26 LSB), if set to <b>hotel</b> then comfort, standby, off; if set to <b>residential</b> then day, night, depression, auto, party)  (default = comfort/day, 0x0001)	bit 0 ... comfort (occupied house) <i>or</i> day (sun + occupied house) bit 1 ... standby (empty house) <i>or</i> night (moon + occupied house) bit 2 ... off (off) <i>or</i> depression (empty house) bit 3 ... auto (clock) – <i>only when residential</i> bit 4 ... party (sun + drink + clock, after 2h goes to auto) – <i>only when residential</i> bit 5 to 14 ... reserved bit 15 ... write enable (if set to 1 value will be written into register, if in 0 attempt will be ignored)
	24 LSB 24 MSB		reserved	
actual regulation mode	25 LSB	R, RAM	actual mode used for control, if on <b>manual</b> then the <b>actual control mode</b> is equal to <b>set presence mode</b> , if on <b>auto</b> then according to time schedule (displayed symbols depend on the configuration register <b>regulator settings</b> , if set to <b>hotel</b> then comfort, standby, off; if set to <b>residential</b> then day, night, depression, auto, party)	bit 0 ... comfort/day bit 1 ... standby/night bit 2 ... off/depression
	25 MSB		reserved	

regulator settings	26 LSB	R, W EEPROM (hotel, relative temp, valve protection on, valve NC, cascade control not used, 0x10)	<p>controller configuration: cascade control – output turn off, if external (floor) sensor temp derivation, from the set temp is higher than <b>max tracing external temp</b></p> <p>(defaults = hotel, relative temp, valve protection on, valve NC, cascade control not used 0x10)</p>	<p>bit 0 ... presence mode type (0 – hotel, 1 - residential) bit 1 ... temperature correction display (0 – relative, 1 – absolute) bit 2 ... regulation type (0 – PI, 1 – on/off) bit 3 ... reserved bit 4 ... valve exercising (protection) (1 – enabled) bit 5 ... valve polarity (0 – NC, 1 – NO) bit 6 ... cascade control enabled (if controller configured as with external sensor, this bit does not apply, see <b>controller settings 2</b>) bit 7 ... temp correction reset when presence mode changes (0 ... no, 1 ... yes)</p>
inputs settings (inputs enable, inputs logic)	26 MSB	R, W EEPROM (DI1 enabled, active when on, window contact, 0x05)	<p>DI1 configuration</p> <p>(defaults = enabled, active when on, window contact, 0x05)</p>	<p>bit 0 ... enable DI1 bit 1 ... reserved bit 2 ... DI1 input logic (0 – NC, 1 – NO) bit 3 ... reserved bit 4 ... DI1 function: 0 - window contact, 1 - presence</p>
P band	27 LSB 27 MSB	R, W EEPROM ((2 K, 0x0014)	<p><b>controller P-band</b> (input deviation for output proportional part of 100 %) or <b>hysteresis if On/Off</b> (hysteresis for heating is under the setpoint, for cooling above the set-point)</p> <p>(defaults = 2 K, 0x0014)</p>	in 0.1 K
I const	28 LSB 28 MSB	R, W EEPROM (60 min, 0x0E10)	<p>controller I – constant; if out of bounds, a new recalculated value is set after restart</p> <p>(defaults = 60 min, 0x0E10)</p>	in seconds: if set to 0, integration part is disabled

controller settings 2	29 LSB	R, W EEPROM (floor controller, 0x00)	controller configuration: bits 0 and 1: controller type (floor, with external sensor, with average temperatures)	controller configuration: 0 ... floor heating (int. sensor = room sensor, ext. sensor = floor temp limitation) 1 ... controller with ext. sensor (int. sensor = not used, ext. sensor = room sensor) 2 ... average from ext. and int. sensors = room sensor (e.g. for larger rooms), implemented protection against external sensor fail (if the maximum range - sensor value is ignored)
	29 MSB		reserved	
	30 LSB 30 MSB		reserved	
max external temp	31 LSB 31 MSB	R, W EEPROM (28 °C, 0x0AF0)	maximum floor temperature (recommended values are 32 °C for bathrooms, 28 °C for residential rooms), if the controller is configured as with external sensor (see <b>controller settings 2</b> ), this limitation is ignored.  (default = 28 °C, 0x0AF0)	recalculate: max temperature = read value / 100  0 ... 0 20.00 ... 2000 -0.01 ... 0FFFFhex -20.00 ... 0F830hex
max tracing external temp	32 LSB 32 MSB	R, W EEPROM (3 °C, 0x012C)	maximal cascade temperatures for floor heating: (for cascade control derived from the required temperature), temperature floors is limited by maximum temperature (see <b>max external temp</b> ) or <b>max tracing external temp</b> , depending on what occurs first; applies only to floor controller (see <b>regulator settings 2</b> )  (default = 3 °C, 0x012C)	recalculate: temperature = read value / 100  0 ... 0 20.00 ... 2000 -0.01 ... 0FFFFhex -20.00 ... 0F830hex
min rel. temp correction	33 LSB 33 MSB	R, W EEPROM (-3.5 °C, 0x015E)	minimum relative user temperature correction, a positive value is saved and is taken as negative limit.  (default = -3.5 °C, 0x015E)	recalculate: <b>minimum correction = -(read value/100);</b> -10.00 ... 1000

max rel. temp correction	34 LSB 34 MSB	R, W EEPROM (3.5 °C, 0x015E)	maximum relative user temperature correction  (default = 3.5 °C, 0x015E)	recalculate: <b>maximum correction = (read value/100);</b> 10.00 ... 1000
min day, night, depression temp	35 LSB 35 MSB	R, W EEPROM (10 °C, 0x03E8)	minimum temperature which user can set as setpoint for day, night, and off modes -199.99 to 199.99  (default = 10 °C, 0x03E8)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
max day, night, depression temp	36 LSB 36 MSB	R, W EEPROM (40 °C, 0x0FA0)	maximum temperature which user can set as setpoint for day, night, and off modes -199.99 to 199.99  (default = 40 °C, 0x0FA0)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
temp sensor corr	37 LSB 37 MSB	R, W EEPROM (-1,5 °C, 0xFF6A)	correction: adds to the actual temperature measured by the internal sensor -20.00 to 20.00  (default = -1,5 °C, 0xFF6A)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
external temp sensor corr	38 LSB 38 MSB	R, W EEPROM (0 °C, 0x00)	correction: adds to the actual temperature measured by the external floor sensor -20.00 to 20.00  (default = 0 °C, 0x0000)	recalculate: temperature = read value / 100  0 ... 0 199.99 ... 19999 -0.01 ... 0FFFFhex -199.99 ... 0B1E1hex
step temp	39 LSB	R, W EEPROM (0.5 °C, 0x32)	step for user temperature setpoints setting  (default = 0.5 °C, 0x32)	step = read value / 100  10 ... 0.1 100 ... 1
step minutes	39 MSB	R, W EEPROM (5 min, 0x05)	time step for time schedule setting  (default = 5 min, 0x05)	in minutes
	40 LSB 40 MSB		reserved	

show mode	41 LSB 41 MSB	R, W EEPROM (actual control temperature, 0x0008)	data that roll on the LCD display: If only one of the bits is active there is only one value displayed. Otherwise they change periodically after <b>show time</b> .  (default = actual control temperature, 0x0008)	bit 0 ... int. temperature sensor bit 1 ... ext. temperature sensor bit 2 ... current time bit 3 ... PI controller actual temperature (see <b>controller settings 2</b> ) bit 4 ... temp. correction bit 5 ... humidity
show time	42 LSB	R, W EEPROM (3 s, 0x1E)	time (in 100 ms), to display each value in show mode (default = 3 s, 0x1E)	see <b>show mode</b> in 100 milliseconds
edit return time	42 MSB	R, W EEPROM (30 s, 0x1E)	time (in s) of user inactivity to return from edit mode to show mode (default = 30 s, 0x1E)	in seconds
quick edit mode number	43 LSB	R, W EEPROM (0x01)	number of mode which is editable through quick edit menu (short push of the knob)  (default = 0x01)	0 ... push function inactive 1 ... presence mode 2 ... reserved
	43 MSB		reserved	
long push time	44 LSB	R, W EEPROM (1.5 s, 0x0F)	time (in 100 ms) evaluated as long push (go to time schedule menu / leave menu)  (default = 1.5 s, 0x0F)	for editing of the time schedule and presence or fan mode, in 100 milliseconds
super long push time	44 MSB	R, W EEPROM (5 s, 0x32)	time (in 100 ms) evaluated as superlong push (go to settings menu)  (default = 5 s, 0x32)	for actual time and basic setpoints settings, in 100 milliseconds
allowed operation modes	45 LSB 45 MSB	R, W EEPROM (temp corr, presence mode, 0x0101)	settings that user is able to perform 0 ... disabled 1 ... enabled  (default = temp corr, presence mode, 0x0101)	bit 0 ... temp corr. bit 1 ... heating day temp bit 2 ... heating night temp bit 3 ... heat depression temp bit 4 to 6 ... reserved bit 7 ... RTC time bit 8 ... presence mode bit 9 ... reserved bit 10 ... time programme



presence mode edit mask	46 LSB 46 MSB	R, W EEPROM (all, 0x001F)	states in presence mode that user is able to switch between  (default = all, 0x001F)	bit 0 ... day (sun + occupied house) bit 1 ... night (moon + occupied house) bit 2 ... depression (empty house) bit 3 ... auto (clock) bit 4 ... party (sun + drink + clock, after 2h goes to auto)
	47 LSB 47 MSB		reserved	
display symbols	48 LSB 48 MSB	R, W RAM	displayed symbols (for more see display symbols 2)	bit 0 ... spanner bit 1 ... boiler bit 2 ... alarm bell bit 3 ... water tap (DHW) bit 4 ... fan lower bit 5 ... fan upper bit 6 ... fan auto bit 7 ... fan manual bit 8 ... fan manual speed1 bit 9 ... fan manual speed2 bit 10 ... fan manual speed3 bit 11 ... fan auto speed1 bit 12 ... fan auto speed2 bit 13 ... fan auto speed3 bit 14 ... SETTING bit 15 ... write enable write enable (if set to 1 value will be written into register, if in 0 attempt will be ignored)
RTC	49 LSB 49 MSB 50 LSB 50 MSB 51 LSB 51 MSB 52 LSB 52 MSB	R, W EEPROM (non init)	Real time clock  (not subject to INIT command)	see table; to write to those registers, write to EEPROM must be enabled in the <b>status LSB</b> register

display symbols 2	53 LSB 53 MSB	R,W RAM	displayed symbols, second register	bit 0 ... ERROR bit 1 ... No. bit 2 to 14 ... reserved bit 15 ... write enable write enable (if set to 1 value will be written into register, if in 0 attempt will be ignored)
program Monday Event 1 time	54 LSB 54 MSB	R, W EEPROM (06:00 h, 0x0168)	time schedule, Monday, time of event No. 1, in mins since 0:00 (midnight)  (default = 06:00 h, 0x0168)	e.g. 121 ... 2h 1min
program Monday Event 1 value	55 LSB 55 MSB	R, W EEPROM (day/comfort, 0x00)	time schedule, Monday, event No. 1, value  (default = day/comfort, 0x00)	0 ... day/comfort 1 ... night/standby 2 ... off/depression bit 15 = 1 ... event is disabled
program Monday Event 2 time	56 LSB 56 MSB	R, W EEPROM (08:00, 0x01E0)	time schedule, Monday, time of event No. 2, in mins since 0:00 (midnight)  (default = 08:00 h)	For description see address 54 - <b>program Monday num. 1 time</b>
program Monday Event 2 value	57 LSB 57 MSB	R, W EEPROM (night/standby, 0x0001)	time schedule, Monday, event No. 2, value  (default = night/standby, 0x0001)	For description see address 55 - <b>program Monday num. 1 value</b>
program Monday Event 3 time	58 LSB 58 MSB	R, W EEPROM (14:00, 0x0348)	time schedule, Monday, time of event No. 3, in mins since 0:00 (midnight)  (default = 14:00 h)	For description see address 54 - <b>program Monday num. 1 time</b>
program Monday Event 3 value	59 LSB 59 MSB	R, W EEPROM (day/comfort, 0x00)	time schedule, Monday, event No. 3, value  (default = 0)	For description see address 55 - <b>program Monday num. 1 value</b>
program Monday Event 4 time	60 LSB 60 MSB	R, W EEPROM (22:00, 0x0528)	time schedule, Monday, time of event No. 4, in mins since 0:00 (midnight)  (default = 22:00 h)	For description see address 54 - <b>program Monday num. 1 time</b>
program Monday Event 4 value	61 LSB 61 MSB	R, W EEPROM (night/standby, 0x0001)	time schedule, Monday, event No. 4, value (default = 1)	For description see address 55 - <b>program Monday num. 1 value</b>
program Monday Event 5 time	62 LSB 62 MSB	R, W EEPROM (06:00, 0x0168)	time schedule, Monday, time of event No. 5, in mins since 0:00 (midnight)  (default = 06:00 h, 0x0168)	For description see address 54 - <b>program Monday num. 1 time</b>
program Monday Event 5 value	63 LSB 63 MSB	R, W EEPROM (disabled, 0x8000)	time schedule, Monday, event No. 5, value  (default = disabled, 0x8000)	For description see address 55 - <b>program Monday num. 1 value</b>

program Monday Event 6 time	64 LSB 64 MSB	R, W EEPROM (06:00, 0x0168)	time schedule, Monday, time of event No. 6, in mins since 0:00 (midnight) (default = 06:00 h)	For description see address 54 - <b>program Monday num. 1 time</b>
program Monday Event 6 value	65 LSB 65 MSB	R, W EEPROM (disabled, 0x8000)	time schedule, Monday, event No. 6, value (default = disabled)	For description see address 55 - <b>program Monday num. 1 value</b>
program Tuesday Event 1 time	66 LSB 66 MSB	R, W EEPROM (06:00, 0x0168)	time schedule, Tuesday, time of event No. 1, in mins since 0:00 (midnight) (default = 06:00 h)	For description see address 54 - <b>program Monday num. 1 time</b>
...	...	...	...	...
program Sunday Event 6 value	137 LSB 137 MSB	R, W EEPROM (disabled, 0x8000)	time schedule, Sunday, event No. 6, value (default = disabled)	For description see address 55 - <b>program Monday num. 1 value</b>
	138 LSB 138 MSB	R, RAM	reserved	
	139 LSB 139 MSB	R, RAM	reserved	
actual rh	140 LSB 140 MSB	R, RAM	Actual measured relative humidity with incl. sensor correction (see <b>rh sensor corr</b> )	signed 16bit register [0,01 %]
	141 LSB 141 MSB	R, RAM	reserved	
rh sensor corr	142 LSB 142 MSB	R, W EEPROM (+3.0 %)	Relative humidity sensor correction	signed 16bit register [0,01 %]
registers 143 to 146 for types UC300BL with backlight display				

backlight config	143 LSB 143 MSB	R, W EEPROM (0x0009)	configuration of LCD and knob backlight function. If the bit 0 is centrally disabled by 0, all backlight functions are turned off. If the bit 3 is enabled (afterglow function) the first user action (press/turn button) switch on backlight and the second user action (press/turn button) is according defined user function.	bit 0 ... central enable of backlight functions (0 – off) bit 1 ... manual LCD backlight (1 – permanently switch on backlight on level <b>LCD backlight intensity high</b> , this function has higher priority than afterglow function, 0 – switch on backlight on level <b>LCD backlight intensity low</b> , afterglow function could change this level) bit 2 ... manual knob backlight (1 – permanently switch on backlight on level <b>knob backlight intensity high</b> , this function has higher priority than afterglow function, 0 – switch on backlight on level <b>knob backlight intensity low</b> , afterglow function could change this level) bit 3 ... enable afterglow (1 – first user activity, press or turn button, set backlight to high intensity (see registers <b>LCD</b> and <b>knob backlight int. h.</b> ), after defined time from the last user activity ( <b>LCD</b> and <b>knob b. afterglow</b> ) set backlight back to low level; 0 – no response on user activity)
LCD backlight intensity high	144 LSB	R, W EEPROM (100 %)	LCD backlight intensity – higher intensity	[0 .. 100 %]
LCD backlight intensity low	144 MSB	R, W EEPROM (0 %)	LCD backlight intensity – lower intensity	[0 .. 100 %]
knob backlight intensity high	145 LSB	R, W EEPROM (100 %)	knob backlight intensity – higher intensity	[0 .. 100 %]
knob backlight intensity low	145 MSB	R, W EEPROM (0 %)	knob backlight intensity – lower intensity	[0 .. 100 %]

LCD backlight afterglow	146 LSB	R, W EEPROM (3 s)	time of LCD backlight after last user activity (turn/push knob) or after end of edit (return to scrolling mode), if value is 0 then no response on user activity, if non-zero value then it must be bigger than register <b>long push time</b>	in seconds
Knob backlight afterglow	146 MSB	R, W EEPROM (3 s)	time of knob backlight after last user activity (turn/push knob) or after end of edit (return to scrolling mode), if value is 0 then no response on user activity, if non-zero value then must be bigger than register <b>long push time</b>	in seconds
	145 LSB 145 MSB		reserved	
	148 LSB 148 MSB 149 LSB 149 MSB		internal use - reserved	
uptime	1000 LSB 1000 MSB 1001 LSB 1001 MSB	R	uptime (s)	number of seconds after last power on / reset
SW reset	1002 LSB 1002 MSB	R, W RAM	The device resets if <b>SW reset</b> is enabled (see <b>status LSB</b> reg. 3), and a non-zero value is written to this register.	
serial num	1003 LSB 1003 MSB 1004 LSB 1004 MSB	R, W OTP EEPROM	serial number of the module, write down only when the module is manufactured) time programmable, only when the serial number is zero - write is needed within one modbus telegram)	

Real time table

Addr.	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0	Function	Range
49 LSB		10xsecs			seconds				secs	00-59
49 MSB	0	10xmins			minutes				mins	00-59
50 LSB	0		10xhours	10xhours	hours				hours	00-23
50 MSB	0	0	0	0	0	day			day	01-07
51 LSB	0	0	10xdate		date				date	01-31
51 MSB	0	0	0	10xmonth	month				month	01-12
52 LSB	10xyear				year				year	00-99
52 MSB	0	0	0	0	0	0	0	0	not used	00



# MODBUS

## UC300 - Room floor heating controller

1 × DO, 1 × DI, RS485

Release 14.1.2022 ver. 208

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