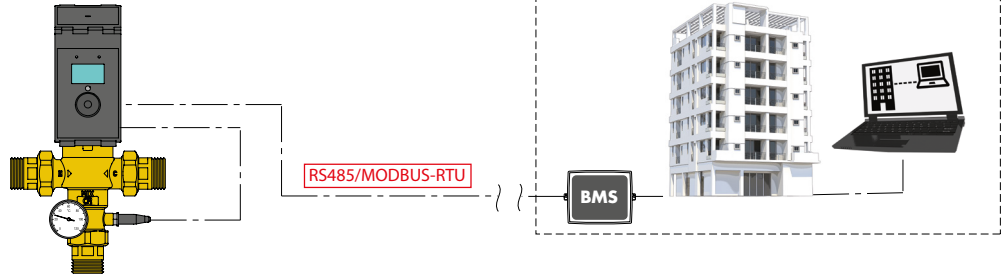


## Register LEGIOMIX® 2.0 - 6000 series

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REG	REG (hex)	DESCRIPTION	VALUE	FUNCTION	
				0x03	0x06
0	0000	MODEL	6002		x
1	0001	ID MODBUS	1...250		x
2	0002	T1	(°C/10) or (°F/10)		x
3	0003	T2	(°C/10) or (°F/10)		x
4	0004	ID NUMBER	1701...9952		x
5	0005	SERIAL NUMBER	0001...9999		x
6	0006	STATUS	0= motor test awaiting command 1= zero acquisition control status 2= full scale acquisition control status 3= water mixing status 4= thermal shock status 5= thermal disinfection status 6= alarm in progress blocking status		x
7	0007	ALARMS	b0: 1= (AL01) b1:- b2: 1= (AL03) b3: 1= (AL04) b4: 1= (AL05) b5: 1= (AL06) b6: 1= (AL07) b7: 1= (AL08) b8: 1= (AL09) b9: 1= (AL10) b10: 1= (AL11) b11:- b12:- b13:- b14:- b15:-		x
8	0008	IN/OUT STATUS	b0: 1=IN1 disabled b1: 1=IN2 disabled b2:- b3:- b4:- b5:- b6:- b7:- b8: 1=OUT1 enabled b9: 1=OUT2 enabled b10: 1=OUT3 enabled b11:- b12:- b13:- b14:- b15:-	b0: 0=IN1 enabled b1: 0=IN2 enabled b2:- b3:- b4:- b5:- b6:- b7:- b8: 0=OUT1 disabled (ALARM CONDITION) b9: 0=OUT2 disabled b10: 0=OUT3 disabled b11:- b12:- b13:- b14:- b15:-	x
9	0009	ADJUSTMENT STATUS	0= adjustment not in progress 1= adjustment on maximum temperature limit 2= T1 enabled control 3= T2 enabled control with calculated propagation time 4= T2 enabled control with set propagation time 5= DT measurement in progress		x
10	000A	MOTOR STATUS	0= motor stopped 1= motor opening 2= motor closing		x
11	000B	DEVICE ADJUSTMENT STATUS	0= without adjustment 1= adjustment on band 1 2= adjustment on band 2 3=adjustment on band 3 4= adjustment in position		x
12	000C	DN	0= DN15 1= DN20 2= DN25 3= DN32 4= DN40 5= DN50		x
13	000D	SECONDS	0...59		x
14	000E	CURRENT DAY	1...7		x
23	0017	FIRMWARE			x
24	0018	SOFTWARE			x
25	0019	CHECKSUM			x
1000	03E8	DAY	1...31		x x
1001	03E9	MONTH	1...12		x x
1002	03EA	YEAR	0...99		x x
1003	03EB	HOUR	0...23		x x
1004	03EC	MINUTE	0...59		x x

REG	REG (hex)	DESCRIPTION	VALUE	FUNCTION			
				0x03	0x06		
1005	03ED	CONFIGURATION	b0: 1= check battery confirmed b1: 1= day-hour confirmed at the start b2: 1=daylight saving time enabled b3: 1=time format on 12H b4: 1=temperature unit °F b5: 1=U.S. daylight saving time enabled b6: 1=disinfection control on T2 b7: 1= encoder steps acquisition	b0: 0= check battery not confirmed b1: 0=day-hour not confirmed at the start b2: 0=daylight saving time disabled b3: 0=time format on 24H b4: 0=temperature unit °C b5: 0=U.S. daylight saving time disabled b6: 0=disinfection control on T1 b7: 0= not writable on 0	x	x	
1006	03EE	SET POINT TEMPERATURE	350...650 (°C/10) or 950...1490 or (°F/10)		x	x	
1007	03EF	DISINFECTION TYPE	b1-0: 00=In1 Mode b2:- b3:- b4: 1=fixed propagation time b5: 1= ECO function enabled b6:- b7: 1= control on maximum temperature limit	b1-0: 01=In2 Mode b2:- b3:- b4: 0=calculated propagation time b5: 0= ECO function disabled b6:- b7: 0= control on minimum disinfection temperature	b1-0: 10=In3 Mode b2:- b3:- b4:- b5:- b6:- b7:-	x	x
1008	03F0	MINIMUM DISINFECTION TEMPERATURE	500...850 (°C/10) or 950...1850 or (°F/10)		x	x	
1009	03F1	MINIMUM DISINFECTION TIME	1...600 (minutes)		x	x	
1010	03F2	MAXIMUM DISINFECTION TIME	3...900 (minutes)		x	x	
1011	03F3	DISINFECTION START DAY	b0: 1= Monday enabled b1: 1= Tuesday enabled b2: 1= Wednesday enabled b3: 1= Thursday enabled b4: 1= Friday enabled b5: 1= Saturday enabled b6: 1= Sunday enabled b7:-	b0: 0= Monday disabled b1: 0= Tuesday disabled b2: 0= Wednesday disabled b3: 0= Thursday disabled b4: 0= Friday disabled b5: 0= Saturday disabled b6: 0= Sunday disabled b7:-	x	x	
1012	03F4	MONDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1013	03F5	MONDAY DISINFECTION STARTING HOUR	0...23		x	x	
1014	03F6	TUESDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1015	03F7	TUESDAY DISINFECTION STARTING HOUR	0...23		x	x	
1016	03F8	WEDNESDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1017	03F9	WEDNESDAY DISINFECTION STARTING HOUR	0...23		x	x	
1018	03FA	THURSDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1019	03FB	THURSDAY DISINFECTION STARTING HOUR	0...23		x	x	
1020	03FC	FRIDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1021	03FD	FRIDAY DISINFECTION STARTING HOUR	0...23		x	x	
1022	03FE	SATURDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1023	03FF	SATURDAY DISINFECTION STARTING HOUR	0...23		x	x	
1024	0400	SUNDAY DISINFECTION STARTING MINUTE	0...59		x	x	
1025	0401	SUNDAY DISINFECTION STARTING HOUR	0...23		x	x	
1026	0402	TIME BANDS RICIRCULATION START	b0: 1= 1*time band enabled b1: 1= 2*time band enabled b2: 1= 3*time band enabled b3: 1= 4*time band enabled b4: 1= 5*time band enabled b5: 1= 6*time band enabled b6:- b7:-	b0: 0= 1*time band disabled b1: 0= 2*time band disabled b2: 0= 3*time band disabled b3: 0= 4*time band disabled b4: 0= 5*time band disabled b5: 0= 6*time band disabled b6:- b7:-	x	x	
1027	0403	MINIMUM THERMAL SHOCK TEMPERATURE	650...850 (°C/10) or 1490...1850 or (°F/10)		x	x	
1028	0404	MINIMUM THERMAL SHOCK TIME	0...4320 (minutes)		x	x	
1029	0405	MAXIMUM THERMAL SHOCK TIME	0...4320 (minutes)		x	x	
1030	0406	MAXIMUM TEMPERATURE LIMIT	650...850 (°C/10) or 1490...1850 or (°F/10)		x	x	
2000	07D0	THERMAL SCHOCK	1=Start	0=Stop	x	x	
2001	07D1	DISINFECTION	1=Start	0=Stop	x	x	
2002	07D2	ZERO ACQUISITION CONTROL	1=Start	0=Stop	x	x	
2003	07D3	FULL SCALE ACQUISITION CONTROL	1=Start	0=Stop	x	x	
2004	07D4	MOTOR TEST	1=Start	0=Stop	x	x	
2005	07D5	ACTIVE ALARM RESET	0=Reset		x	x	
2006	07D6	HISTORY ALARM RESET	0=Reset		x	x	

### Transmission

Protocol type	BUS	Baud Rate	Data bit	Parity	Stop bit	Handshake	Unit Load
MODBUS-RTU	RS-485	9600	8	EVEN	1	None	1/8UL

### MODBUS functions:

#### Function 0x03 - Read Holding Registers

Used to read one or more parameters (the size of every parameter is 16 bit)

The frame has the following structure:

dev. Addr.	func	start addr H	start addr L	N.regs H	N.regs L	CRC16H	CRC16L
HH	03	HH	HH	00	HH	HH	HH

dev. Addr. - Address of the device on the RS485 net (1-250)

Func - Function code = 3

start addr H - MSByte of the address of the parameter:

start addr L - LSByte of the address of the parameter

N.regs H - MSByte of the number of registers to read (always 0)

N.regs L - LSByte of the number of registers to read

CRC16H - MSByte of CRC16

CRC16L - LSByte of CRC16

If during a multiple reading request, is specified a not allowed quantity of registers, the device will answer with an exception code 0x02 (ILLEGAL DATA ADDRESS).

#### Function 0x06 - Write Single Register

Used to write a single parameter ( 16 bit )

The frame has the following structure:

dev. Addr.	func	Reg.addr H	Reg.addr L	Reg. val. H	Reg. val. L	CRC16H	CRC16L
HH	06	HH	HH	HH	HH	HH	HH

dev. Addr. - Address of the device on the RS485 net (1-250)

Func - Function code = 6

Reg. addr H - MSByte of the address of the parameter

Reg. addr L - LSByte of the address of the parameter

Reg. val. H - MSByte of the value of the parameter

Reg. val. L - LSByte of the value of the parameter

CRC16H - MSByte of CRC16

CRC16L - LSByte of CRC16

The specified value is not accepted (exception code 2) if it is not consistent with the parameter range or if it is not consistent with the current state of the device (e.g. day = 31 rejected if month = 4, month = 4 rejected if day = 31).