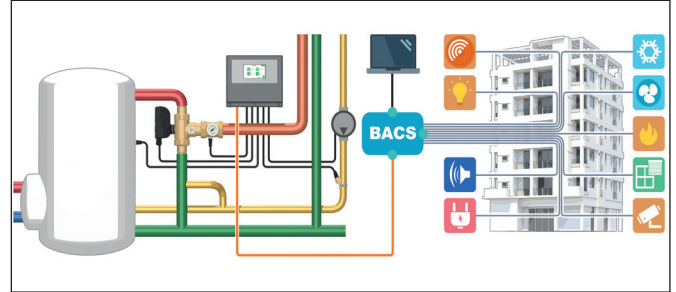


Modbus registers LEGIOMIX®evo - 6003 series

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Technical documentation:



Firmware version: 1.1.1

Transmission

To set the Modbus parameters follow the path on the LEGIOMIX evo display:

Home -> Settings -> Protocols -> - Modbus TCP
- Modbus RTU



SERIAL PARAM



Address

-

156

+

Baudrate

9600

Data bits / Stop bits

8 / 1

Parity

E



☐ ☒

1. Set the address using + and -;
2. Select the Baudrate by choosing "9600" or "19200";
3. Select the Parity by choosing "O", "E" or "N";
4. Save. The regulator restarts automatically in order to apply the set configurations properly.

Modbus RTU default settings		
Modbus RTU	Default value	Range
Address	1	1 - 247
Baudrate [baud]	9600	9600 - 19200
Bits	8	
Parity	None	None (N) / Even (E) / Odd (O)
Stops (s)	1	



ETH2 PARAM



↑

+

+

+

+

IP

000

000

000

000

↓

-

-

-

-



☐ ☒

1. Select the IP, Mask, Gateway, parameters;
2. Set the values using + and -;
3. Save. The regulator restarts automatically in order to apply the set configurations properly

Modbus TCP default settings		
Modbus TCP	Default value	Range
IP Address	192.168.89.22	---.---.---.---
Mask	255.255.255.00	---.---.---.---
Gateway	192.168.89.1	---.---.---.---

REG	REG (hex)	DESCRIPTION	VALUE	NOTES	FUNCTION	
					READ	WRITE
1	0001	Caleffi series	6003		X	
2	0002	Firmware version			X	
3	0003	Hardware version			X	
4	0004	Serial number part low	First 4 digits of the serial number of the device	Example: SN: 87654321 4: 4321 5: 8765	X	
5	0005	Serial number part high	Last 4 digits of the serial number of the device		X	
9	0009	Unit of measurement	1: CELSIUS 2: FARENHEIT		X	
10	000A	Function active	0: Undefined 1: Disinfection Program 1 2: Disinfection Program 2 3: Disinfection Program 3 4: Flushing 5: Shock 6: Anticlog 8: Mixing 9: Safety valve 88: Initialization 99: Loading program		X	
11	000B	Year			X	
12	000C	Month			X	
13	000D	Day			X	
14	000E	Hour			X	
15	000F	Minute			X	
42	002A	Relay Status	- Bit 0: Recirculation pump - Bit 1: Flushing - Bit 2: Safety valve - Bit 3: Auxiliary - Bit 4: Alarm	relays close (value 1) relays open (value 0)	X	
53	0035	T mix	NTC 1 (mixed) (Value = temperature values * 100)	[°C * 100] or [°F * 100] depending on the device configuration. The unit of measurement can be read in REG 9.	X	
54	0036	T rec	NTC 2 (recirculation) (Value = temperature values * 100)		X	
55	0037	T storage	NTC 3 (storage) (Value = temperature values * 100)		X	
57	0039	NTC Probe enabled	- Bit 0 is NTC Mixing Probe - Bit 1 is NTC Recirculation Probe - Bit 2 is NTC Storage Probe	probe is enabled (bit = 1) probe not enabled (bit = 0)	X	
60	003C	Disinfection selected mode	1: Program 1: mixed probe 2: Program 2: recirculation probe 3: Program 3: recirculation probe but with temperature compensation of the mixed water probe		X	
61	003D	T set mix	Value = temperature values * 100	[°C * 100] or [°F * 100] depending on the device configuration. The unit of measurement can be read in REG 9.	X	X
95	005F	Anticlog	0: disabled 1: enabled		X	
111	006F	Alarm code	See alarm code list*		X	
200	00C8	Modbus RTU address			X	

* see the "Instruction sheet" H0013291 - Quick start guide.

Modbus Functions	Default value	
Read functions	0x03	Read holding register
Write functions	0x06	Write single register

