

# OUMAN H23

## Heating controller for three circuits

- 2 heating circuit control
- 1 domestic hot water control



YM0020: Version 2.0.1->

# OUMAN H23

Heating controller for three circuits

## Central water heating houses

Ouman H23 is suitable for every house with central water heating. H23 is open to different types of remote monitoring solutions. House heating can now be monitored and controlled from the display of a GSM-phone, PC, and from the controller. Alarm messages can be received as text messages into a GSM-phone.

### Ounet

Quite large Ouman building automation systems can be easily controlled and monitored remotely using a web browser. To use a browser you must have a M-LINK, Ounet account as well as a functioning network solution and sufficient data security.

### Other monitoring systems

The H23 controller can be connected to other monitoring systems using a Modbus.

## GSM control

When a GSM modem is connected to the controller, a GSM telephone can be used to communicate with the controller via text messages. Also alarms can be sent to five different numbers and can be reset by a text message.

GSM modem and M-LINK are exclusive alternatives. They use the same connector.



## Technical information

<b>Dimensions</b> .....	width 230 mm, height 160 mm, depth 60 mm
<b>Weight</b> .....	1.3 kg
<b>Protection class</b> .....	IP 41
<b>Operating temperature</b> .....	0 °C...+50 °C
<b>Storing temperature</b> .....	-20 °C...+70 °C
<b>Power supply L (91), N (92-94)</b>	
- Operating voltage .....	230 Vac / 200 mA
- The internal 24 V power source, total load capacity of max. 1 A/23 VA	
- Front fuse .....	max 10A
<b>Measurements inputs:</b>	
- Sensor measurements (11-19) .....	Measurement channel accuracy: - NTC10-element: ±0,15 °C between -50 °C...+100 °C Also sensor tolerances and the effect of cables must be considered when calculating total accuracy. Measurement M1 can be connected also from outside of the casing by a plug-connector.
- Digital inputs (27, 28) .....	Contact voltage 15 Vdc, switching current 5 mA Transfer resistance max. 250 Ω (closed), min. 350 Ω (open).
<b>Analog outputs</b>	
(66, 68, 70) .....	Output voltage range 0...10 V Output current max. 10 mA / output
<b>15 VDC output (1)</b> .....	15 VDC output maximum load 100 mA
<b>24 VAC output (51)</b> .....	Total current of 24 VAC output and triac-outputs max. 1A.
<b>Pump control contacts (81-89)</b> .....	Contacts for three circulation pump Pumps are controlled by a switches on the top of the H23 device Relay max. load 3A.
<b>Protective earth terminal (73-78)</b> .....	Protective earth terminal block for 230V devices. Control circuit fuse max. 10A
<b>Control outputs (51)</b> .....	24 VAC - control output
Triac (55...60) .....	Total current of triac-outputs and 24 VAC output max. 1A.
<b>Data transfer connections</b>	
- RS-485-bus A (3) and B (6) .....	Unisolated, supported protocols Modbus-RTU
<b>Options</b>	
- M-LINK .....	M-LINK provides Modbus TCP / IP interface for H23 device.
- GSMMOD .....	By connecting the GSM modem to the H23, you can communicate with the text messages to device and receive alarms to GSM phone.
<b>APPROVALS</b>	
- EMC-directive .....	2014/30/EU, 93/68/EEC
- Interference tolerance .....	EN 61000-6-1
- Interference emissions .....	EN 61000-6-3



## More than a heating controller

### Versatile measurements

- Outdoor temperature
- H1 supply water temperature
- H1 return water temperature
- H1 room temperature
- H2 supply water temperature
- H2 return water temperature
- H2 room temperature
- DHW supply water temperature
- DHW circulation water temperature
- General measurement

### Digital inputs (on/off), e.g.:

- Information about the pump's running mode
- Alarm information about overload protection
- General alarm
- Home-Away switch

### Net connections

- Modbus RTU slave (connectors 3,4,6)
- By using M-LINK the second Modbus TCP connection is available

### Selecting the curve type and parallel shift

- 5 point curve

### Actuator control

- 3 pcs 3-point controlled 24VAC
- 3 pcs voltage controlled (0 ... 10V)

Attention! Voltage controlled 0...10V actuators can be connected to cascade control (2 pcs / circuit)

### Alarm relay 1 pcs

### Additional Control panel

- Max. 20 m, e.g. CAT 5 cable (optional)

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