TECH Controllers EHI-2 Mixing Valves Module User Manual

Contents

MH Controllers EHI-2 Mixing Valves Module

Specifications

- **Power supply voltage:** 230 V +/-10% / 50Hz
- **Power consumption of the controller:** 2 W
- **Ambient temperature:** 0.5 °C
- **Max. load on pump and valve outputs:** 6.3 A
- **Sensor temperature resistance:** 0.5 °C
- **Fuse insert:** 6.3 A

Product Usage Instructions

- **Safety:**
  When handling the controller, ensure that it is securely mounted and free from dust and other contaminants.
- **Device Description:**
  The device features controls for pump operation, valve opening, and valve closing.

Installation:
Installation of the controller should only be carried out by individuals with the appropriate qualifications. The controller should be connected as per the provided installation diagram.

- Valve sensor – 1
- External sensor – 2
- CH sensor – 3
- Return sensor – 4

Warning:
Before working on the controller, ensure to disconnect the power supply and prevent accidental power-on to avoid the risk of electric shock.

Note:
It is recommended to use an additional safety system like the ZP-01 pump adapter to protect the device and prevent damage.

Technical Data:

The device operates on a power supply voltage of 230 V +/-10% at 50Hz and consumes 2 W. It can withstand an ambient temperature of 0.5 °C and has a maximum load capacity on pump and valve outputs of 6.3 A

SAFETY

Before operating the device, please read the following instructions carefully. Failure to observe instructions may cause damage to the device or even personal injury. Please store this manual for future reference.
To avoid functional errors or accident, make sure that all persons operating the device are thoroughly familiarized with its operation and safety functions. Please retain the operating manual for future reference and make sure that it stays with the device if it is transferred or sold, so that anyone using it will have sufficient information concerning the operation and safety of the device. For the safety of life and property, take precautions in accordance with the user manual, as the manufacturer is not responsible for damage caused by negligence.

WARNING

- Live electrical equipment! Before carrying out any operations related to the power supply (connecting cables, installing the device, etc.), make sure that the controller is not connected to the mains!
- Installation should be carried out only by a person holding appropriate electrical qualifications!
- Before starting the controller, the ground resistance of electric motors and the insulation resistance of electric wires should be measured.
- The controller is not intended to be operated by children!

NOTE

- Atmospheric discharges can damage the controller, in the event of a thunderstorm, the controller should be switched off by unplugging the mains plug.
- The controller may not be used contrary to its intended purpose.
- Before and during the heating season, check the technical condition of the cables. Also check the installation of the controller, clear away dust and other soiling.

DEVICE DESCRIPTION

The EHI-1m module is designed to operate a three- or four-way mixing valve with the option of connecting an additional valve pump. This controller is equipped with a weather control function, a weekly schedule setter, and is compatible with a room regulator. An additional advantage of the device is the return temperature protection against too low a temperature of the water returning to the boiler. The module does not work independently, it works with the EHI-2 master device, in which all settings are available.

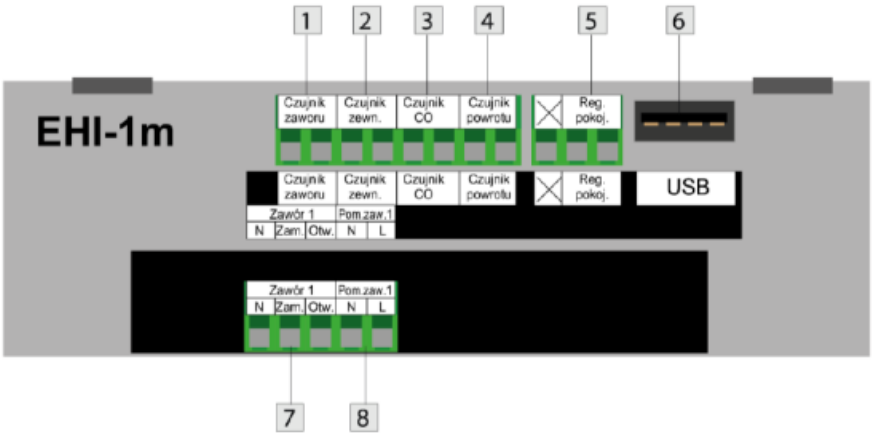
Description of controls

- Communication – information about the current status of the module
- Pump work
- Opening the valve
- Closing the valve

HOW TO INSTALL

The controller should only be installed by a properly qualified person!

1. Valve sensor
2. External sensor
3. CH sensor
4. Return sensor
5. Room regulator
6. USB
7. Valve
8. Valve pump

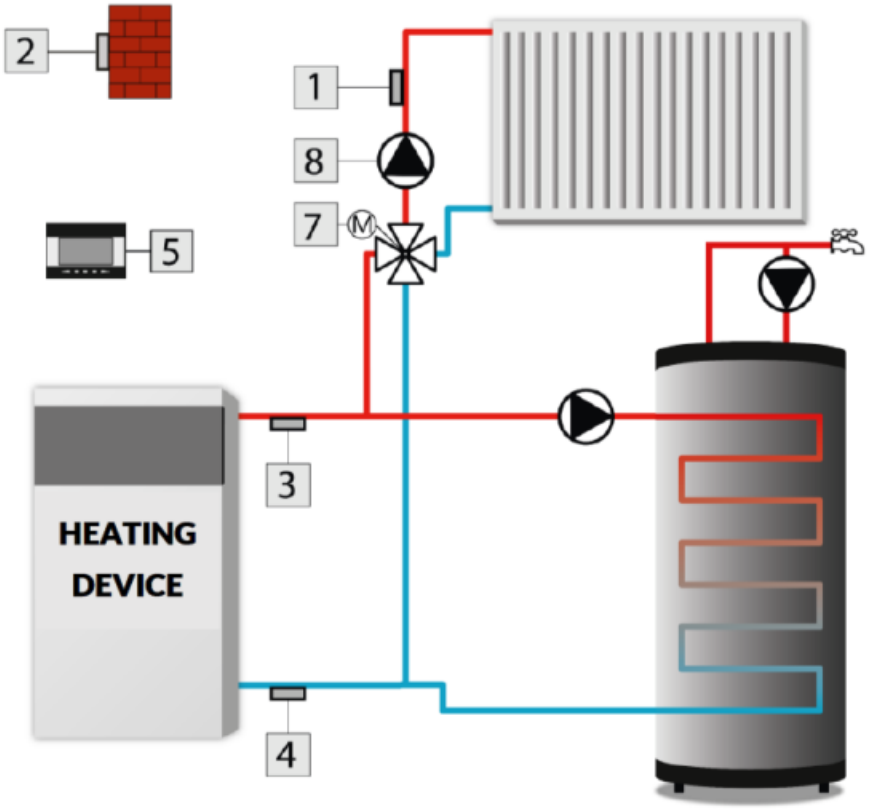


WARNING
Danger of injury or death due to electric shock on live connections. Before working on the controller, disconnect its power supply and secure it against accidental switching on

NOTE

- Never connect the pump controlling outputs directly to the systems pumps if the manufacturer requires the use of external main switch, a power supply fuse or additional deformed current resistant residual current circuit breaker!
- To prevent damage to the device, use an additional safety system between the controller and the pump.
- The manufacturer recommends the ZP-01 pump adapter, which must be ordered separately.

Example installation diagram:



TECHNICAL DATA

No.	Specification	Unit	
1	Power supply voltage	V	230 +/-10% /50Hz
2	Power consumption of the controller	W	2
3	Ambient temperature	°C	5÷50
4	Max. load on pump and valve outputs	A	0.5
5	Sensor temp. resistance	°C	-30÷99
6	Fuse insert	A	6.3

The product may not be disposed of to household waste containers. The user is obliged to transfer their used equipment to a collection point where all electric and electronic components will be recycled. Images and diagrams contained in the document serve illustrative purposes only. The manufacturer reserves the right to introduce changes.

EU Declaration of Conformity

The TECH STEROWNIKI II Sp. z o.o. company, with registered office in Wieprz, 34-122, at ulica Biała Droga 31, declares under sole responsibility that the EHI-1m manufactured by us meets the requirements of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (Official Journal of EU L 96 of 29.03.2014, page 357) and Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (O. J. EU L 96 of 29.03.2014, page 79), Directive 2009/125/EC on ecodesign requirements for energy-related products and

REGULATIONS OF THE MINISTER OF ENTREPRENEURSHIP AND TECHNOLOGY of 24 June 2019 amending the regulation on the essential requirements for the restriction of use certain hazardous substances in electrical and electronic equipment implementing Directive (EU) 2017/2102 of the European Parliament and of the Council of 15 November 2017 amending Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (O. J. EU L 305 of 21.11.2017, p. 8)
The harmonized standards applied for conformity assessment were:

- **PN-EN IEC 60730-2-9:2019-06,**
- **PN-EN 60730-1:2016-10,**
- **PN EN IEC 63000:2019-01 RoHS.**
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- Wieprz, **01.09.2024**

FAQs

- **Q: What should I do if I encounter a warning message on the controller?**
  A: If you encounter any warning messages, immediately disconnect the power supply and refer to the user manual for troubleshooting steps.
- **Q: Can I connect the pump-controlling outputs directly to the system's pumps?**
  A: It is not recommended to connect the pump-controlling outputs directly to the pumps. Always use an additional safety system like the ZP-01 pump adapter to prevent damage to the device.

Documents / Resources

	TECH Controllers EHI-2 Mixing Valves Module [pdf] User Manual EHI-2 Mixing Valves Module, EHI-2, Mixing Valves Module, Valves Module, Module

References

- User Manual