

ROTH 1135007708

Roth Basicline AM-6 Connection Module Instruction Manual

Model: 1135007708

1. PRODUCT OVERVIEW

The Roth Basicline AM-6 Connection Module (Model 1135007708) provides a clear and secure connection solution for thermostats and actuators in heating and cooling systems. Its compact, high-quality housing is designed for quick and easy installation on standard rails or directly to the back panel of a distribution cabinet. Featuring plug-in terminals, an integrated fine fuse, and standard strain relief, it ensures fast and reliable connections.

This module is specifically designed to integrate seamlessly with all Roth Basicline series thermostats, offering efficient control over your climate system.



Figure 1: Roth Basicline AM-6 Connection Module (covered)

This image displays the Roth Basicline AM-6 Connection Module with its translucent protective cover in place, showcasing its compact and robust design.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the Roth Basicline AM-6 Connection Module. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes and regulations.
- Ensure the main power supply to the installation area is disconnected and locked out before performing any installation, maintenance, or troubleshooting.
- Do not expose the module to moisture, water, or extreme temperatures outside the specified operating range (0-50 °C).
- The device is designed for indoor use only. Its protection type is IP20, meaning it is protected against solid objects larger than 12.5mm but has no protection against water.
- Do not open the module housing unless specifically instructed for fuse replacement by a qualified technician.

3. INSTALLATION GUIDE

The Roth Basicline AM-6 module is designed for flexible mounting options, either on standard DIN rails or directly to a wall surface.



Figure 2: Roth Basicline AM-6 Connection Module (uncovered)

This image shows the Roth Basicline AM-6 Connection Module with its protective cover removed, revealing the internal circuit board and clearly labeled plug-in terminals for electrical connections.

3.1 Mounting

1. **Select Location:** Choose a suitable, dry location within a distribution cabinet or on a wall. Ensure adequate ventilation around the module and easy access for wiring.
2. **DIN Rail Mounting:** If using a DIN rail, simply clip the module onto the rail until it securely locks into place.
3. **Wall Mounting:** For direct wall mounting, use appropriate screws (not supplied) to secure the module through the designated mounting holes on its base.

3.2 Electrical Connections

The module facilitates the connection of up to 6 Roth Basicline H 230 V or Basicline T room thermostats and a maximum of 16 Roth 230 V actuators. All connections utilize plug-in terminals for ease of installation.

1. **Power Supply:** Connect the 230 V $\sim \pm 10\%$ power supply to the designated L (Live) and N (Neutral) terminals. The module includes an integrated T4A fine fuse for protection.
2. **Thermostat Connections:** Connect each Roth Basicline thermostat to its respective input terminal (e.g., T1, T2, etc.) on the module. Follow the thermostat's wiring diagram for correct connections.
3. **Actuator Connections:** Connect up to 16 Roth 230 V actuators to the output terminals. Each thermostat input typically controls multiple actuator outputs. Ensure correct polarity and secure connections for all actuators.
4. **Pump Output:** The module features a dedicated pump output (PUMP L, PUMP N) for demand-controlled circulation pump operation. Connect your circulation pump to these terminals.
5. **Setback Input:** An input for setback signals (e.g., from a clock thermostat) is available. Connect the setback signal to the designated terminal to enable temperature reduction during unoccupied periods.
6. **24V Operation (Optional):** For systems requiring 24 V operation, the Roth RT-2 transformer (Article No. 1135007679) is required. Connect the transformer according to its instructions, and then connect its 24V output to the module's designated 24V input terminals.
7. **Strain Relief:** Utilize the standard strain relief mechanisms to secure all cables and prevent accidental disconnection or damage.
8. **Final Check:** Before restoring power, carefully verify all wiring connections for correctness and security.

4. OPERATION

Once correctly installed and powered, the Roth Basicline AM-6 module operates automatically, managing the communication between your Roth Basicline thermostats and actuators to maintain desired climate conditions.

- **Thermostat Control:** The connected thermostats continuously monitor room temperature and send signals to the module based on their setpoints and current readings.
- **Actuator Control:** In response to thermostat signals, the module activates or deactivates the connected 230 V actuators. This action regulates the flow of heating or cooling medium to the respective zones.
- **Pump Control:** The integrated pump output ensures that the circulation pump activates only when there is an active demand for heating or cooling from any connected thermostat, optimizing energy consumption.
- **Setback Function:** If a compatible clock thermostat is connected to the setback input, the module will process the setback signal to automatically adjust temperatures to a lower (or higher) setting during predefined periods, such as nighttime or when the building is unoccupied.

For specific operational details and settings related to your individual Roth Basicline thermostats and actuators, please refer to their respective instruction manuals.

5. MAINTENANCE

The Roth Basicline AM-6 Connection Module is designed for reliable, maintenance-free operation under normal conditions. Regular inspection can help ensure its longevity and optimal performance.

- **Cleaning:** If necessary, gently wipe the exterior of the module with a dry, soft cloth. Do not use abrasive cleaners, solvents, or any liquids that could enter the housing.
- **Inspection:** Periodically inspect all cable connections to ensure they remain secure and free from corrosion. Ensure the module is free from excessive dust accumulation, especially around any ventilation openings.
- **Fuse Replacement:** The module contains an integrated T4A fine fuse. If the module ceases to function, and all other power sources are confirmed, the fuse may need replacement. This procedure should only

be performed by a qualified technician after completely disconnecting power to the module.

There are no other user-serviceable parts inside the module.

6. TROUBLESHOOTING

If the Roth Basicline AM-6 module is not functioning as expected, consider the following common issues and their potential solutions:

- **No Power / Module Indicators Off:**

Symptom: The module shows no signs of power, and no connected devices respond.

Solution: Check the main power supply to the module. Verify that the integrated T4A fuse is intact. Ensure all power connections (L and N) are secure.

- **Thermostats Not Controlling Actuators:**

Symptom: Thermostats are set to demand heating/cooling, but the actuators do not open or close.

Solution: Check the wiring between the thermostats and the module's input terminals. Ensure the thermostats are correctly configured and sending signals. Verify that the actuators are properly connected to the module's output terminals and are functional.

- **Pump Not Activating:**

Symptom: Heating/cooling demand is present, but the circulation pump connected to the module does not run.

Solution: Check the wiring to the pump output terminals. Ensure the pump itself is operational. Verify that there is an active demand signal from at least one connected thermostat.

- **Intermittent Operation:**

Symptom: The module or connected devices behave erratically, turning on/off unexpectedly.

Solution: Inspect all connections for looseness, corrosion, or damage. Check for any external electrical interference. Ensure the ambient temperature and humidity are within the specified operating limits.

If problems persist after attempting these solutions, contact qualified technical support or your Roth distributor.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Model Number	1135007708
Operating Voltage	230 V ~ ± 10% (24 V optional with RT-2 transformer)
Distribution Fuse	230 V/T4A (integrated)
Max. Thermostats	6 (Roth Basicline H 230 V or Basicline T)
Max. Actuators	16 (Roth 230 V)
Permitted Ambient Temperature	0...50 °C
Permitted Ambient Humidity	<80% RH (non-condensing)
Protection Type	IP 20 (EN 60529)
Dimensions (approx.)	34 x 11.2 x 6.2 cm

Parameter	Value
Weight (approx.)	485 g
Connector Type	Clamp

8. OPTIONAL ACCESSORIES

To enhance the functionality and versatility of your Roth Basicline AM-6 Connection Module, the following accessories are available (sold separately):

- **Roth RT-2 Transformer (Article No. 1135007679):** Required for 24 V operation of the module and connected components, supporting up to 18 actuators.
- **Roth Temperature and Dew Point Sensor:** For advanced environmental monitoring and control within your system.
- **Roth Humidity Sensor with Guardian Function:** Provides precise humidity control and protection against condensation.

Please refer to the respective product documentation for these accessories for detailed information on their installation and operation.

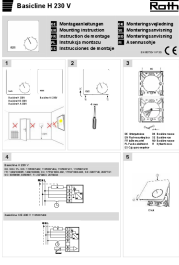
9. WARRANTY AND SUPPORT

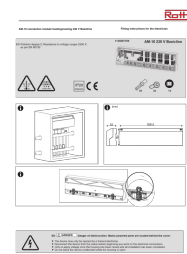
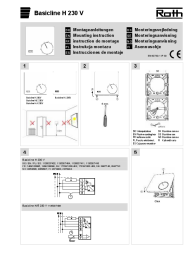
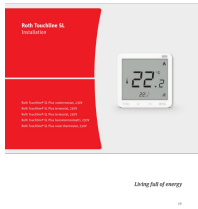
For warranty information, technical support, and service inquiries regarding your Roth Basicline AM-6 Connection Module, please refer to the official Roth website or contact your local authorized Roth distributor. It is recommended to keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: Roth

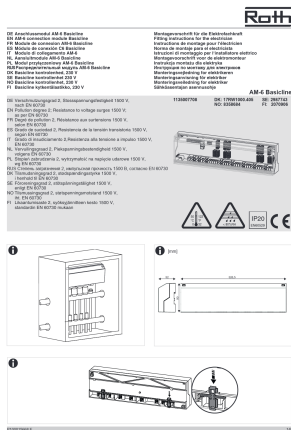
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Related Documents - 1135007708

	Roth Basicline 230T Thermostat Installation and User Guide Comprehensive guide for the Roth Basicline 230T thermostat, covering installation, operation, settings, and troubleshooting. Learn how to optimize your heating and cooling with this 230V thermostat.
	Roth Basicline H 230 V Thermostat: Installation Guide & Technical Specifications Comprehensive mounting instructions and technical data for the Roth Basicline H 230 V, H/E, H.A, and H.i thermostats. Includes wiring diagrams, specifications, and contact information for Roth offices worldwide.

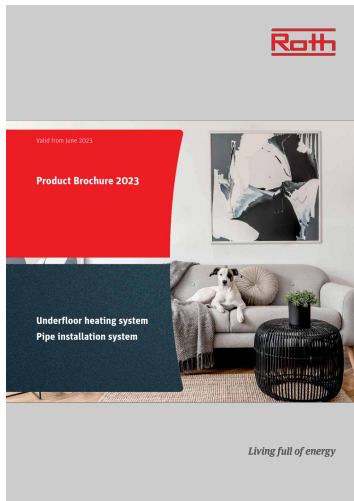
	Roth AM-10 230 V Basicline Installation Instructions Installation and fitting instructions for the Roth AM-10 230 V Basicline connection module, including wiring diagrams and technical specifications.
	Roth Basicline H 230 V Mounting Instructions and Technical Data Comprehensive mounting instructions and technical specifications for the Roth Basicline H 230 V thermostat, covering installation steps, wiring diagrams, and operational data.
	Roth Touchline SL Thermostat Installation Guide Comprehensive installation and setup guide for the Roth Touchline SL and SL Plus thermostats. Covers wall mounting, wiring, sensor connection, pairing with controllers, floor sensor configuration, and advanced functions.
	Roth Touchline@ SL Thermostat Installation Guide Comprehensive installation guide for the Roth Touchline@ SL room thermostat and underfloor heating system. Learn how to pair, register, and configure your thermostat with floor sensors and controllers.

Documents - ROTH – 1135007708



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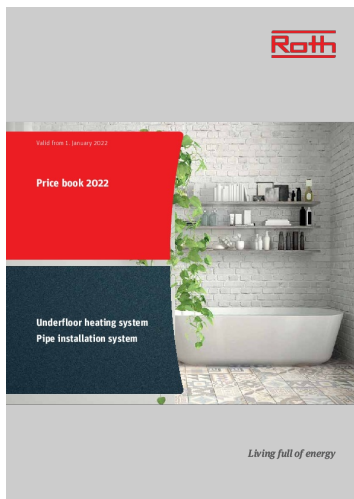
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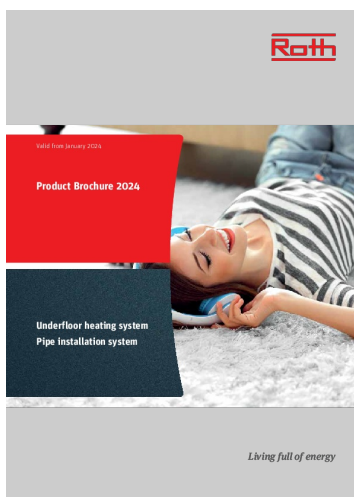
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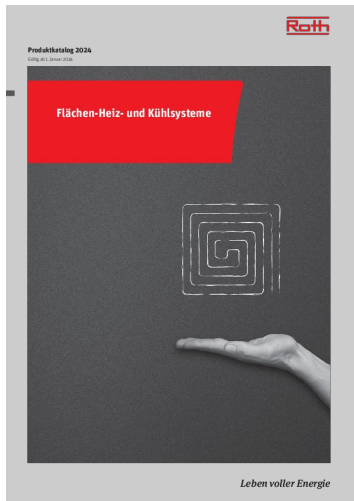
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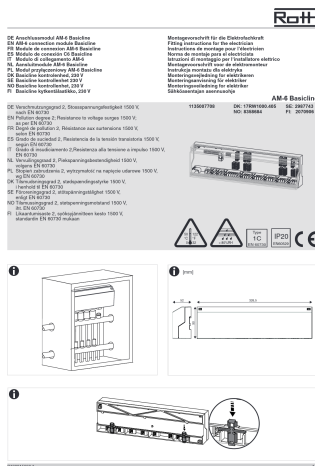
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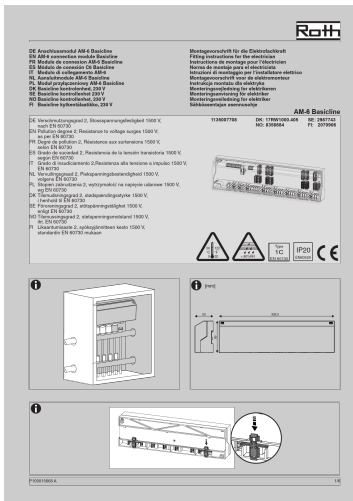
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