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Expansion module for the BWC 330 Pro controller

NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

WARNING!

Expansion module may only be installed, commissioned, and dismantled by trained personnel. Work on electrical circuits should only be carried out by a licensed, qualified electrician.

Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

Expansion module operates at a mains voltage of 230 V AC. This voltage can cause serious injury and death.

Do not allow the expansion module to come into contact with water.

Before installing the module, please read the operating instructions for the circulation pump and the electric actuator.



APPLICATION

Used in heating and cooling systems. Wall-mounted near the BWC 330 Pro controller and the pump unit. Extends the capabilities of the BWC 330 Pro controller to control the fourth and fifth system circuits. One module controls one additional circuit: one circulation pump and one actuator for the mixing valve.

PREDICTABLE INCORRECT APPLICATION

The expansion module for the BWC 330 Pro controller must not be used in the following cases:

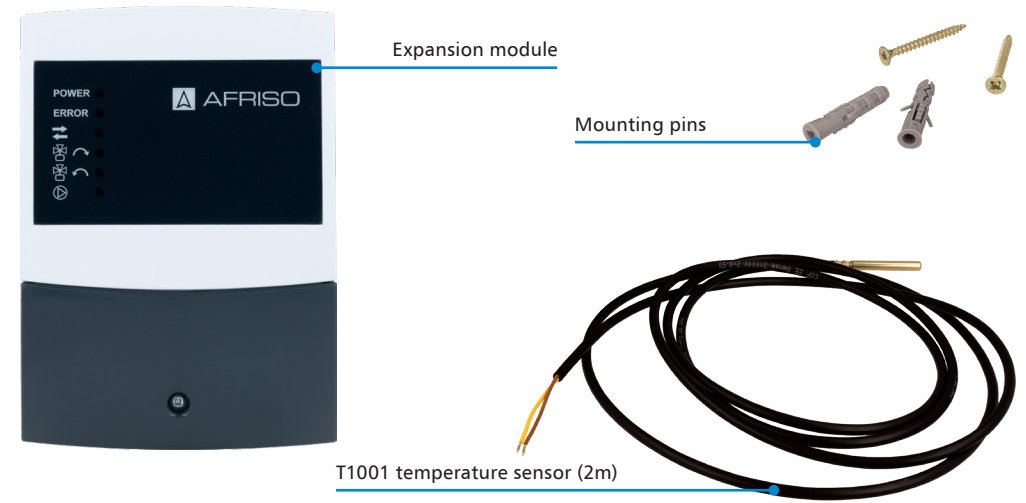
- in explosive atmospheres,
- when used in potentially explosive atmospheres; sparks may cause a deflagration, fire or explosion.

DESCRIPTION

The expansion module for the BWC 330 Pro controller enables the control of additional system circuits. A single module allows for the control of one circulation pump and one electric actuator for a mixing valve, either set to a constant temperature or weather-compensated.

It is possible to connect a two-position room thermostat to the expansion module in order to reduce the flow temperature and/or switch off the circulation pump based on the set room temperature.

SCOPE OF DELIVERY



OPERATING INDICATORS



POWER	Power indicator light
ERROR	The LED lights up when an error occurs (e.g. faulty temperature sensor)
	The LED flashes during communication type with the BWC 330 Pro controller
	The LED flashes when the mixing valve actuator turns the closing element clockwise
	The LED flashes when the mixing valve actuator turns the closing element anti-clockwise
	The LED lights up when the circulation pump is running

MOUNTING

The extension module is designed for indoor installation. It must be installed in a dry room, free from condensation, and protected against temperatures falling below 0°C. The module should be mounted on the wall using the mounting pins included in the scope of delivery.

ELECTRICAL CONNECTION

WARNING! Work may only be carried out with the power supply disconnected, after confirming that there is no voltage on the cables.

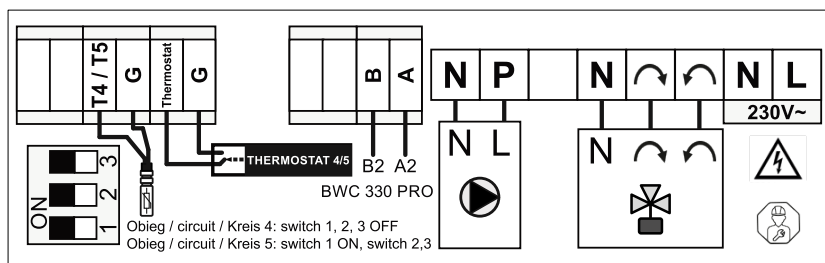
When connecting the electrical module to the domestic mains supply, you must comply with health and safety regulations and other relevant accident prevention regulations. You must also comply with all applicable national regulations.

When installing the module and during future maintenance work, ensure that all connections are tightened to the proper torque to prevent the cables from becoming loose. Failure to do so may result in damage to electrical equipment and electric shock.

The module must be powered from a three-wire electrical installation with a voltage of 230V/50Hz, protected by an overcurrent fuse with a rating appropriate to the load and cable cross-sections, and a residual current device (RCD). Cables must be routed away from surfaces with temperatures exceeding their permissible limit, and the cable ends must be terminated with ferrules. The screw terminals accommodate cables up to 1.5 mm².

The temperature sensor must be mounted flush against the pipe using a cable tie or in another suitable location, e.g. in a dedicated pocket.

All cables must be routed through cable glands and secured with cable ties.



- T4/T5, G – connecting the circuit temperature sensor
- Thermostat, G – connecting a two-position thermostat (on/off)
- B, A – connecting the BWC 330 Pro controller

WARNING! Connecting a 230 V AC voltage to the terminals mentioned above will damage the module and pose a risk of electric shock.

- N, P – connecting the circulation pump
- N, ↺, ↻ – connecting the electric actuator of the mixing valve
- N, L – power supply for the expansion module

TEST MODE

The expansion module for the BWC 330 Pro controller features a test mode that allows you to check the electrical connections of the devices with which it will operate, namely the circulation pump and the electric actuator.



To enter test mode, hold down the side button (marked with a red frame in the photo above) until the Power LED starts flashing (approx. 3 seconds).

Pressing the side button repeatedly simulates the operation of the pump and the rotation of the mixing valve actuator to the left or right. The operating status of the devices is indicated by the proper LED lighting up.

To exit this mode, press and hold the side button for about 10 seconds. The test mode will switch off automatically after 10 minutes of inactivity.

SWITCH CONFIGURATION

Depending on the number of circuits the BWC 330 PRO controller is operating with, the switches on the expansion module must be configured properly. This is necessary for the controller to correctly identify the specific circuit.

If the module is operating as circuit 4, set switches 1, 2 and 3 → OFF

If the module is operating as circuit 5, set switch 1 → ON, switches 2 and 3 → OFF

TECHNICAL DATA

Parameter	Value
Power supply	230 V AC, 50 Hz
Current drawn	0,02 A
Rated current	max 0,6 A
Protection rating	IP20
Ambient temperature	0-55°C
Storage temperature	0-55°C
Relative humidity	5–80% (no condensation)
Output load	mixing valve actuator: 1.5 A; pump: 1.5 A
Measurement range of the sensors	0-100°C
Temperature measurement resolution	1°C
Temperature measurement accuracy	±1°C

APPROVALS AND CERTIFICATES

AFRISO Sp. z o.o. hereby declares that the expansion module for the BWC 330 Pro controller complies with:

- the LVD Directive on electrical equipment designed for use within certain voltage limits (2014/35/EU),
- the EMC Directive on electromagnetic compatibility 2014/30/EU,
- the RoHS Directive on the restriction of the use of hazardous substances in electrical and electronic equipment 2011/65/EU.



The full text of the EU Declaration of Conformity is available at the following web address: www.afriso.pl.

MAINTENANCE

The expansion module for the BWC 330 Pro controller requires no maintenance.

DECOMMISSIONING, DISPOSAL



1. Disconnect the power supply.
2. Dismount the device.
3. Dispose of the product in accordance with applicable regulations, standards and safety guidelines.

Electronic components and batteries must not be disposed of with household waste. This product contains a non-removable battery. Please return the product to a proper collection point or to the manufacturer's or distributor's collection point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.