Certificate

Automated hydraulic balancing
Confirmation of equivalence

The assessment was carried out in accordance with the requirements for recognition of equivalence with Procedure B in the BAFA/KfW checklist of 13 March 2025.
The technical requirements were confirmed by reproducible simulation. In addition, the necessary process steps for meeting the requirements and the level of automation were verified.

Registration No.	**90214 269689605 10**
Certificate holder	**eQ-3 AG** **Maiburger Straße 29** **26789 Leer**

TÜV Rheinland confirms that the automated hydraulic balancing procedure of the aforementioned company – implemented via the **Homematic IP** – is suitable for carrying out automated hydraulic balancing on water-based heating systems within the described scope of application. This is subject to compliance with the additional requirements for the procedure.

The performance of automated hydraulic balancing using this control system is assessed as being at least equivalent to conventional hydraulic balancing. The method therefore complies with the requirements of the Building Energy Act (GEG) and the Federal Funding Scheme for Efficient Buildings (BEG EM). Technical equivalence to Method B applies to both residential and non-residential buildings.

The entire process was tested using standardised procedures to ensure reproducibility. The process was evaluated against a defined list of criteria. The control system was tested using simulation.

The evaluation is based on the test reports from TÜV Rheinland (Report 90214-0269748231_10) and from Prof. Dr Huu Thoi Le, Chair of Heating, Energy and Environmental Engineering at the Berlin University of Applied Sciences (Report tado-AHA 2026), both dated 18 September 2026. Both reports form the basis of the certificate and contain the certification requirements, the control system test, the review of the procedure description, and the context-dependent product characteristics. The contents, system boundaries and characteristics of the control system are documented and evaluated in the test reports.

The system documentation must be made available to the building owner. It serves as evidence of the measures carried out and forms the basis for future work on the heating system.

Type of evidence	Verification of the process and of the mandatory and additional aspects using a list of criteria and a manufacturer's declaration; verification of the control system using simulation
Heat Control	Automatic hydraulic balancing via **Homematic IP** for the following models: HmIP-eTRV-2, HmIP-eTRV-B-2, HmIP-eTRV-E(-S,-A), HmIP-eTRV-F, HmIP-eTRV-3, HmIP-eTRV-C-2, HmIP-eTRV-CL
Hard-/Software	Control Algorithm Version 2.0.0
Audit criteria	BAFA/KfW checklist; DIN EN 12831 or DIN EN/TS 12831; GEG § 60c, taking into account DIN 94679-4:2023-03 and the VDZ technical regulation
Valid from	18.09.2026
Valid until	17.09.2027

Changes to the checklist, its invalidation, or changes to the verification procedure may necessitate recertification. Similarly, changes regarding the ability of the systems to perform automated hydraulic balancing or to meet the requirements of the aforementioned checklist may necessitate recertification.

Nürnberg, 18.09.2026 i.A. Kai Zitzmann
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