

STATUTES

to the warranty mark H2ready



Content

Preamble	3
1 Name and address of the applicant.....	5
2 Declaration in accordance with § 106d Abs. 2 Nr. 2 MarkenG	5
3 Reproduction of the warranty mark	5
4 Characteristics of the goods and services covered by the certification mark	5
5 List of goods and services.....	6
6 Conditions for the use of the warranty mark.....	7
6.1 Right to use the warranty mark.....	8
6.2 Period of validity	8
6.3 Graphic regulations for the use of the warranty mark	8
6.4 Requirement of neutrality	9
7 Persons authorized to use the warranty mark.....	9
8 Verification of the conditions for use of the trademark.....	9
9 Certificate of approval	10
10 The register for the H2ready warranty mark.....	10
11 Monitoring the use of the trademark.....	11
12 Possible sanctions.....	11
13 13. Rights and obligations of the parties involved in the event of infringements of the certification mark	12

Preamble

Hydrogen is expected to play a key role in the supply of gaseous energy sources as a future renewable or decarbonized energy carrier. However, the technical rules governing gas supply are not yet geared towards hydrogen. The H2ready certification mark is intended to meet the wishes of numerous manufacturers of products and providers of services in the fields of gas supply and energy technology who want to demonstrate the special properties of their products and services: their suitability for the use, storage, and transport of hydrogen or hydrogen-natural gas mixtures despite the lack of standards.

DBI - Gastecnologisches Institut gGmbH Freiberg – hereinafter referred to as DBI – and its predecessor organizations have been operating an accredited testing laboratory for gas appliances and gas fittings for several decades. Against the backdrop of its many years of activity as

- Testing laboratory,
- experience in drafting testing standards and rules for the gas supply and use sector, and
- based on national and international research projects, collaborations, and demonstration and pilot projects in the field of hydrogen supply and use

The DBI has gained experience in how to achieve a secure supply of hydrogen and its use in public spaces. The H2ready certification mark therefore sets out testing rules that can be applied to the supply of natural gas-hydrogen mixtures and pure hydrogen, based on the secure and successful supply of natural gas and the applicable standards. The certification mark is intended to document the high quality of the products and services and their suitability. In its standardization work, the DBI will advocate for the testing rules developed to be incorporated into German and international regulations.

The H2ready warranty mark and the tests carried out by the DBI testing laboratory therefore stand for safety, efficiency, and environmental and consumer protection.

DBI - Gastecnologisches Institut gGmbH Freiberg has an internationally recognized testing center, "Prüflaboratorium Energie" (Energy Testing Laboratory), for gas supply and energy technology devices and fittings. This testing center is accredited and recognized by various organizations:

- German Accreditation Body GmbH (Deutsche Akkreditierungsstelle GmbH) (DAkkS)
- Accredited testing laboratory according to DIN EN ISO/IEC 17025:2018, Kenn-Nr. D-PL-11072-01-00
- DVGW CERT GmbH
 - Testing laboratory for gas appliances within the scope of EC Regulation 2016/426/EU
 - Testing laboratory for pressure equipment within the scope of EC Directive 2014/68/EU
 - German Institute for Building Technology (DIBt):
 - Notified body according to EU Construction Products Regulation 305/2011 for construction products, Notified Body No. 1721
 - Testing center in accordance with state building regulations, reference number: SAC24
 - For issuing general building inspection test certificates
 - For inspecting construction products prior to confirmation of conformity

- DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
 - Testing laboratory for oil burners and solid fuel appliances, registration number: PL015
- GS mark testing laboratory within the scope of the ProdSG
- Association of Cantonal Fire Insurers VKF (Switzerland)
 - Approval for combustion units
 - Member of the Association of Materials Testing Institutes (Verband der Materialprüfungsanstalten e. V. (VMPA))

The Energy Testing Laboratory sets the highest standards for itself and its employees when testing devices and fittings. These standards are aimed at ensuring proper, accurate, and independent testing in accordance with applicable standards, guidelines, and other requirements set out in regulations. To this end, both laboratories have established their own quality management systems, which are regularly audited by external and independent auditors.

The statutes govern the principles according to which the H2ready warranty mark is awarded, as well as the principles for using the warranty mark. The statutes ensure that users of the aforementioned products and services can verify the correctness of the testing. All manufacturers, distributors, and operators of products and providers of services who apply for the certification marks agree to these statutes.

1 Name and address of the applicant

DBI - Gastechnologisches Institut gGmbH Freiberg
Halsbrücker Straße 34
09599 Freiberg

[hereinafter also referred to as “DBI”]

DBI is also the issuing authority for a test mark certificate for the warranty mark.

2 Declaration in accordance with § 106d Abs. 2 Nr. 2 MarkenG

The applicant meets the requirements set out in § 106b Abs. 1 MarkenG. It does not engage in any activity that involves the delivery of goods or the provision of services for which the warranty is assumed.

3 Reproduction of the warranty mark



hereinafter referred to as the “warranty mark.”

4 Characteristics of the goods and services covered by the certification mark

The H2ready warranty mark is intended to meet the needs of numerous manufacturers of products and providers of services in the fields of gas supply and energy technology who wish to demonstrate the special characteristics of their products and services: their suitability for the use, storage, and transport of hydrogen and hydrogen-natural gas mixtures despite the lack of standards.

The warranty mark is therefore used to identify products and services that are suitable for the safe transport, storage, and use of a gaseous mixture of natural gas and hydrogen. The proportion of hydrogen for which suitability has been tested is recorded in the test mark certificate. Products and systems must be made of materials that do not allow diffusion and permeation of hydrogen or hydrogen-containing gas mixtures and that are resistant to embrittlement effects caused by hydrogen and hydrogen-containing gas mixtures. Systems in which hydrogen and hydrogen-containing gas mixtures are transported or stored must be explosion-proof.

Services performed during the transport and storage of hydrogen and hydrogen-containing gas mixtures and during the operation of such systems must ensure compliance with safety standards for handling hydrogen and hydrogen-containing gas mixtures.

5 List of goods and services

The certification mark certifies that the owner of the certification characteristics guarantees the following goods and services: (hereinafter referred to as “goods” or “products” or “services”)

- Class 6: Pipes, tubes, and hoses, and accessories therefor, including valves, made of metal; metal parts for gas pipes; metal pipes for transporting liquids and gases; metal pipes as main pipes for gases; metal pipes for gas pipes; metal elbow joints for connecting gas pipes to gas appliances; Metal cylinders for compressed gas; metal valves for controlling the flow of gases in pipes;
- Class 7: Gas engines; gas compressors; gas filters [machine parts]; Gas compressors [machines]; Gas-powered electricity generators; Burning lances; Flange connections for pipes [machine parts]; Pressure regulators [machine parts]; Pressure reducers [machine parts]; Pressure control valves [machine parts]; Pressure control devices as machine parts; Valves for pressure regulators [machine parts];
- Class 9: Gas meters; gas sensors; gas flow meters; gas flow monitors; gas meters [measuring instruments]; apparatus for monitoring gas consumption;
- Class 11: Control devices for gas appliances; safety valves for gas appliances; pressure monitoring devices [safety devices for gas appliances]; pressure relief valves and pressure limiting valves [safety devices] for gas appliances and gas pipes; shut-off taps and shut-off valves as safety devices for gas appliances; Control and safety accessories for gas appliances, as well as for gas pipes and gas installations; pressure regulators for gas installations; control devices for gas installations and for gas pipe installations; safety valves for gas appliances; safety fittings for gas pipes; safety valves for gas pipes; control devices for gas pipes; pressure regulators for gas pipes; control devices for gas pipe installations; Pressure monitoring devices [safety devices for gas pipes]; gas ovens; gas stoves; gas regulators; gas boilers; gas lamps; gas burners; gas cooking appliances; gas grills; gas radiant heaters; gas burner stoves; gas reheating ovens; gas refrigerators; gas lighting; gas recuperators; gas heat generators; Gas space heaters; Portable gas burners; Gas-fired space heaters; Gas-fired space heating systems; Gas-fired space heating appliances; Gas-fired stoves; Gas-fired cookers; Gas-fired heating stoves; Gas-fired central heating systems; Gas-fired water heaters; Gas-fired heating systems; Gas-powered heating appliances; gas-powered cooking appliances; gas lighters; gas-fired boilers; gas-powered central heating systems; gas boilers for hot water production; heating systems for gas; decorative gas lighting; decorative gas lighting systems; gas water heaters; burners for gas stoves; gas stoves for household use; Control devices for gas appliances; Gas boilers for central heating systems; Gas filters and purifiers; Gas fireplaces for domestic use; Gas boilers for hot water production; Attachments for gas burners; Gas boilers [except machine parts]; Gas ovens for domestic use; Gas-powered electric rotisseries; Commercial kitchen appliances for cooking; Gas and electric cookers; Gas water heaters for domestic use; gas-powered clothes dryers; gas stoves [space heaters for domestic use]; gas stoves with rotating flames; heating appliances for gaseous fuels; gas burners for industrial use; gas cooking appliances with built-in grill grates; shut-off valves for gas regulation; gas-powered drying appliances; Gas-powered cooling appliances; Gas-powered boiling appliances; Shut-off valves for gas regulation; Gas preheaters for industrial purposes; Gas burning appliances; Gas collecting appliances; Gas burning appliances; Gas boilers for heating swimming pools; Taps for regulating gas flows; control devices as parts of gas burners; pilot lights for igniting gas-fired appliances; devices for regulating gas flow; gas stoves with band-shaped

flames; gas-fired boilers for domestic hot water systems; heating systems for use with gaseous fuels; Burners for burning gas in boiler units; filters for gases [domestic or industrial installations]; gas-fired boilers for domestic central heating; gas-fired boilers for domestic hot water production; gas-powered metal plates for baking and roasting food [cooking appliances]; Gas-fired combination furnaces for use in steel production; filters for purifying gases [parts of domestic or industrial installations]; heating boilers; radiant heaters; heating boilers; stationary heating burners; industrial heating installations; heating apparatus; heating devices; furnaces for heating; heating installations; Heating devices for shower rooms; burners for boilers; radiant heaters with fans; burners for heating systems; heating stoves [for industrial purposes]; heating stoves for commercial purposes; boilers and heating devices; heating devices for domestic use; heating devices for commercial purposes; heating devices with catalytic combustion; heating devices for use in the home; heating devices for use in the treatment of metal;

- Class 17: Non-metallic gas pipe seals; non-metallic seals for preventing gas leaks; non-metallic hoses for conveying gaseous media; pipe couplings; pipes [flexible]; sealing tape for pipes; pipe connectors; pipe sealants; non-metallic pipe couplings; non-metallic pipe fittings; seals for pipe connections; non-metallic pipe connections; non-metallic pipe connectors; non-metallic pipe fittings; non-metallic pipe connection parts; Non-metallic pipe connectors; Non-metallic insulated pipes; Pipe fittings, non-metallic; Pipe sleeves, non-metallic; Pipe connections, non-metallic; Pipe couplings, non-metallic; Pipe joints, non-metallic; Pipe coupling parts, non-metallic; Pipe connection parts, non-metallic; Pipe connectors, non-metallic; Non-metallic pipe connectors; Non-metallic pipe connectors; Non-metallic pipe connectors; Non-metallic pipe connectors; Non-metallic pipe connectors; Non-metallic pipe connectors; Non-metallic pipe fittings; Non-metallic pipe connectors; Non-metallic pipe joints; Non-metallic pipe linings; Non-metallic pipe connectors; Non-metallic pipe couplings; Fittings for pipes, not of metal; screw fittings for pipes, not of metal; connectors for pipes, not of metal; non-metallic accessories for flexible pipes; connectors for pipes, not of metal; connectors, not of metal, for pipes; connecting pieces for pipes, not of metal; Coupling parts for pipes, not of metal; screw connections for pipes, not of metal; connecting sleeves for pipes, not of metal; elbows, not of metal, for pipes; couplings for pipelines, not of metal; sealing rings for pipe fittings, not of metal; Pipe couplings and connectors, not made of metal; parts for pipe connections, not made of metal; connectors, not made of metal, for flexible pipes; connectors, not made of metal, for flexible pipes; flexible pipes, tubes, hoses, and connectors for them [including valves], as well as connectors for rigid pipes, all not made of metal;
- Class 37: Underground construction work related to gas supply pipes; underground construction work related to gas supply lines; repair of gas supply systems; construction of gas pipelines; installation of gas supply and gas distribution equipment; plumbing and gas and water installation; laying of gas and water pipes; repair of gas supply equipment as part of an emergency service; repair and maintenance of gas and electricity installations;
- Class 39: Storage of gas; storage of gaseous fuels; services related to gas storage; gas distribution services; gas delivery [distribution]; distribution of gas; transportation of gas via pipelines; transportation of gas through pipelines; transportation of oil or gas via pipelines;

6 Conditions for the use of the warranty mark

DBI grants the right to use the certification mark only on condition that the respective applicant proves compliance with the product- or service-related criteria associated with the certification mark by submitting a test mark certificate.

DBI monitors the use of the certification mark. During the term of the certificate, companies have the option of extending the scope of the certificate to include additional products and services, provided that these meet the

above conditions.

Individual products or services are tested by DBI or by testing laboratories recognized by DBI. Applicants enter into a contract with DBI for the issuance of a test mark certificate by DBI.

6.1 Right to use the warranty mark

Upon issuance of the test mark certificate, the applicant receives a time-limited right of use for the warranty mark from DBI. The right of use is transferred to the applicant in accordance with the provisions of these statutes. The warranty mark remains the property of DBI in all forms.

The warranty mark may be used in all internal and external corporate communications. Its use in a wide variety of areas and media, e.g., in company presentations or brochures, in advertisements and catalogs, on posters, in marketing campaigns and events, on the Internet, in newsletters to customers, in press releases, etc., is only permitted if it conveys a direct and unambiguous connection with the tested product or service. Use unrelated to the tested product or service is prohibited.

The warranty mark may only be used for your own purposes. It may not be transferred or sublicensed to third parties, either free of charge or for a fee. This also applies to affiliated companies within the group.

Furthermore, the right to use the warranty mark may not be transferred to another product or service. In particular, no stickers, electronic image files, or copies of the warranty mark may be passed on to third parties in any form or used for untested products or services.

The right to use the warranty mark must be proven by the corresponding original test mark certificate and by publication in the DBI H2ready register.

All rights of use not expressly listed in these statutes remain with DBI as the owner of the warranty mark.

6.2 Period of validity

The period of use for the warranty mark begins on the date of issue of the test mark certificate. The period of use of the warranty mark is based on the applicable test criteria. If the test criteria do not specify a period of validity for a test, a maximum period of validity of 5 years applies. The expiry date is documented in the test mark certificate.

The period of validity of the test mark certificate begins anew with each further positive test (new, supplementary, and extended tests) and thus with each newly issued test mark certificate.

The renewal of the test mark certificate must be applied for at DBI at least 2 months before the expiry of the period of validity. This is followed by at least one formal check to determine whether the criteria that led to the test mark certificate being issued are still valid.

The test mark certificate is valid until the expiry of the period of validity; this ends the right to use the warranty mark.

6.3 Graphic regulations for the use of the warranty mark

The warranty mark is provided as an electronic image file. The warranty mark is issued in electronic form.

The warranty mark, as shown in section 3, may not be altered or redesigned in terms of its design, color scheme, or proportions.

For printouts, a minimum height of 15 mm must be maintained, and a minimum pixel density of 300 dpi is

required.

6.4 Requirement of neutrality

The warranty mark must be used together with the words “warranty mark” or “independently tested.”

7 Persons authorized to use the warranty mark

Only companies and individuals who can demonstrate that they meet the product and service-related criteria and have been granted the right to use the warranty mark are entitled to use the warranty mark.

In principle, all companies that manufacture, distribute, and/or operate goods and services covered by the warranty mark as their own goods and services are eligible. This includes manufacturers of such goods and providers of such services, as well as trading companies that offer third-party products under their own brands as their own goods, and operators of gas technical systems and supply networks that use such goods or offer such services. However, companies and individuals who merely distribute third-party products without themselves acting as product managers for the corresponding products are not eligible to apply.

8 Verification of the conditions for use of the trademark

Upon written request from an applicant, DBI will review the issuance of a test mark certificate and the granting of a right to use the warranty mark in accordance with these statutes.

The right of use applies exclusively to the clearly identifiable product or service described in the test mark certificate and the specified scope of testing within the defined period of validity.

The test is divided into new tests, supplementary tests, extension tests, and surveillance tests.

The granting of the test mark certificate is recorded in the DBI H2ready register.

By issuing the test mark certificate, the customer undertakes to maintain the principles required for the issuance of the test mark certificate and recorded in the scope of testing of the test mark certificate for the period of validity of the test mark certificate. The customer shall independently ensure that the parameters of the scope of testing are maintained by means of a suitable quality management system.

The definition of the test is derived from the test basis. Tests within the meaning of these statutes are:

- a) New tests: Type, initial, prototype, or design tests for the initial testing of a product that has not been submitted for testing to any other body; initial testing of services that have not been submitted for testing to any other body.
- b) Supplementary tests, drawing review: Follow-up test to take note of changes to an already tested product or service that comply with the test basis.
- c) Extension test: Follow-up test to take note of changes to an already tested product or service that comply with the test basis and that change the intended use.
- d) Recurring inspection within the period of validity, monitoring inspection, control inspection: Regular inspections specified by the test basis or monitoring measures in the event of objective evidence of a

violation of the statutes.

The test basis is formed by applicable standards, generally accepted guidelines, or DBI's own in-house procedures, which are applied in full, in part, or in accordance with standards or generally accepted guidelines. The test basis may consist of one or more of the above-mentioned test procedures. The test procedures are documented and generally accessible. In the case of DBI's in-house procedures, these are available from DBI. The test basis is stated in the test mark certificate.

The scope of testing is the scope of all tests of a product or service that have been carried out and successfully passed by DBI and, in exceptional cases, by qualified partners of DBI as subcontractors. The scope of testing may consist of several tests. The scope of testing is determined by the customer's test order.

Test mark certification is the certification of successful testing for a clearly described product or service in accordance with the test criteria specified in the certificate. The test mark certification entitles the holder to label a product or service with the mark.

For the basic requirements and the specific requirements for the products and services, reference is made to the respective test criteria published on the following DBI website:

www.dbi-gruppe.de/en/departments/dvgw-test-laboratory-energy/h2ready

9 Certificate of approval

The test mark certificate confirms in writing that the test criteria applicable to the product or service and underlying the test report have been fulfilled.

The test mark certificate is issued by DBI for a specific product or service of the applicant, a scope of testing, and a period of validity, and the original is handed over to the customer.

A sample of the test mark certificate is part of the user agreement and includes the following minimum information:

- a) Test laboratory that performed the test
- b) Test report number
- c) Name and address of the applicant
- d) Product name (device name, type designation) or name of the service
- e) Test basis/es (standards, guidelines, test specifications)
- f) H₂ content or H₂ range for which suitability has been proven
- g) Date and period of validity of the test mark certificate.

If conditions are specified in the test reports associated with the warranty mark, the right to use the warranty mark shall only commence after these conditions have been implemented. The certificate shall be provided in German or English.

10 The register for the H2ready warranty mark

DBI maintains a register of all warranty marks awarded. This register is available on the Internet and can be accessed via the homepage

www.dbi-gruppe.de

It is open to the public and freely accessible.

The register contains the following information:

- a) Test report number, testing laboratory
- b) Name and address of the applicant
- c) Product name (device name, type designation) or name of the service
- d) Test basis/bases (standards, guidelines, test specifications)
- e) H2 content or H2 range for which suitability has been proven
- f) Date and period of validity of the test mark certificate
- g) Validity status
- h) Date of last update

Publication in the DBI H2ready register takes place within one week of the test mark certificate being issued.

The register allows valid and invalid test mark certificates and rights of use of the warranty mark to be viewed. If the period of validity of the test mark certificate has expired, the entry is given the status “expired.” If the test mark certificate has been prohibited due to a violation of these statutes or misuse with a warning and a deadline, the entry is marked as “revoked.” Upon termination of the right of use by cancellation, the entry is marked as “deleted.”

11 Monitoring the use of the trademark

The use of the certification mark is generally the responsibility of the authorized companies or individuals and is based on mutual market observation by market participants. DBI also conducts general market surveillance and monitors compliance with the terms of use of the certification mark.

DBI has the right to carry out monitoring or control checks at any time during the period of validity of the test mark certificate, in particular, however, on special occasions, to check compliance with the criteria for issuing the test mark certificate and, if necessary, to take the necessary measures, including (graduated) sanctions, to ensure compliance with the conditions of use.

Applicant companies and individuals undertake to facilitate the measures necessary for monitoring and control, such as access to the production and business premises of the manufacturer or operator, inspection of the documentation of production monitoring or monitoring of the performance of services, etc.

Applicants are obliged to inform DBI of any relevant changes in their business processes and in their products or services.

12 Possible sanctions

As the owner of the warranty mark, DBI guarantees that customers will comply with the terms of use of the warranty mark for the entire duration of their authorization to use the warranty mark. DBI will take appropriate measures to prevent the warranty mark from being misused in a manner that contravenes the terms of use.

In the event of a violation of these statutes or misuse of the warranty mark, the customer is prohibited from continuing to use the warranty mark. To this end, DBI will issue a written warning stating the reasons and

setting a deadline for restoring the proper condition. Once the proper condition has been restored, the customer is entitled to use the warranty mark again. If the rectification ultimately fails, DBI will terminate the right to use the warranty mark in accordance with these statutes and the customer's certificate will be revoked. Upon receipt of the termination, the customer's right to use the warranty mark ends.

If the right of use expires for any reason, the customer is obliged to delete all files, print templates, or similar media of the brand provided by DBI, return them to DBI, or destroy them. The original copy of the certification mark certificate must be returned to DBI within 4 weeks. Upon expiry of the right of use, the publication in the DBI H2ready register will be marked.

Sanctions and the underlying facts will be documented in the register for the certification mark on the DBI website.

13 13. Rights and obligations of the parties involved in the event of infringements of the certification mark

DBI shall have the exclusive right to assert claims for infringement of the warranty mark. DBI shall take appropriate action against infringements in order to prevent the warranty mark from being misused in a manner contrary to the warranty mark regulations.

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