

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 00 ATEX 1038 X

(4) Equipment: Heater of type CW..

(5) Manufacturer: O'Brien Corporation

(6) Address: 1900 Crystal Industrial Court
St. Louis, Missouri, USA 63114

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 00-19035.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997

EN 50018:1994

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

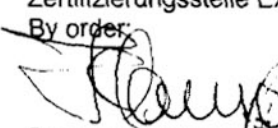
(12) The marking of the equipment shall include the following:

 **II 2 G EEx d IIC T3**

Zertifizierungsstelle Explosionsschutz

Braunschweig, June 08, 2000

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1038 X

(15) Description of equipment

Heater of type CW.. for use in potentially explosive atmospheres of zone 1.

It serves as an anti-freezing heater or as a device for temperature preservation, for example in instrument-protecting boxes.

Electrical data

Rated voltage max..	277	V
Rated power max.	200	W
Ambient temperature max.	+50	°C

(16) Test report PTB Ex 00-19035

(17) Special conditions for safe use

1. The connecting shall be installed as fixed wiring and sufficiently protected against mechanical damage.
2. Connecting cable shall be installed in an enclosure which meets the requirements of a recognized type of protection according to EN 50014, section 1.2., if it is connected in the explosion hazardous area.

(18) Essential health and safety requirements

The assessment and the tests carried out have shown that the heater of type CW... meets the requirements of Directive 94/9 and of the test specification mentioned.

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, June 08, 2000

sheet 2/2

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