



(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 03 ATEX 1215 X

(4) Equipment: Control/limiting unit, type EASYTRACE ...

(5) Manufacturer: INTERTEC-Hess GmbH

(6) Address: Raffineriestraße 8, 93333 Neustadt, Germany

(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 02-12384 .

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

EN 50014:1997 + A1 + A2

EN 50019:2000

EN 50028:1987

EN 50281-1-1:1998

(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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

II 2 G/D EEx em II T4 IP 65 T 130°C

Zertifizierungsstelle Explosionsschutz

Braunschweig, 12 December 2003

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



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(13) **SCHEDULE**

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1215 X**

(15) Description of equipment

In connection with trace heating systems, the control / limiting unit, type EASYTRACE ... , is used for heating system installation.

Protection principle against limit temperature excursion

Stabilising Design

Qualification for heating system installation

Electrical fitter with special skills in explosion protection and electric trace heating systems.

Technical data

Rated voltage	max. 250 V
Admissible operating voltage	max. 275 V
Rated current	max. 10 A (alarmer 16 A)
Ambient temperatures	-50 to +50 °C

(16) Test report PTB Ex 03-12384

(17) Special conditions for safe use

- 1) The installer has to hold a qualification as an electrical fitter with special skills in explosion protection and electric trace heating systems.
- 2) For installation of the complete heating system, only trace heating systems are accepted that have been approved of by the manufacturer (INTERTEC-Hess).
- 3) The resistance value the manufacturer has defined for the heating cable has to be complied with. Deviating values are not accepted.
- 4) For compliance with the limit temperatures, due regard shall also be given to the specifications made in the operating manual (e.g. heating cable installation, insulation of trace heating system).
- 5) The enclosure of the EASYTRACE control / limiting unit shall be installed in an exposed manner.
- 6) When installed in explosive dust atmospheres, components shall be used that have been certified for that purpose.

- 7) The connecting cable of the trace heating system shall be installed to provide for permanent wiring and adequate protection against mechanical damage. If connection is made in the potentially explosive area, the cable shall be connected by means of an enclosure that meets the requirements of a type of protection specified in EN 50014, section 1.2.
- 8) The necessary routine tests shall be made and documented by the installer.
- 9) The manufacturer's operating instructions must be considered.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Zertifizierungsstelle Explosionsschutz

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Dr.-Ing. U. Klausmeyer
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