



(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 98 ATEX 1121 U

(4) Component: connector type S-150... resp. terminator type E-150...

(5) Manufacturer: Raychem Corp.

(6) Address: 300 Constitution Drive, Menlo Park, CA 94025-1164, U.S.A.
c/o Raychem GmbH, Grazer Strasse 24-28, D-63073 Offenbach

(7) This component 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 component 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 99-19032.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 **EN 50019:1994**

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

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

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

II 2 G EEx e II

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 06, 1999

By Order:

Dr.-Ing. U. Klausmeyer
Oberregierungsrat



sheet 1/2

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.

SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1121 U**

(15) Description of component

connector type S-150... resp. terminator type E-150...

for AUTO-TRACE trace heating systems of Raychem, type series BTV, QTVR, KTV and XTV.

Technical data

Rated voltage 277 V

(16) Report PTB Ex 99-19032

(17) Special conditions for safe use

not applicable

(18) Essential health and safety requirements

met by the standards mentioned above.

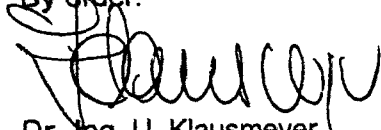
Notes for installation

1. Connector and terminator type .-150... serve as components for installation of trace heating systems manufactured by Raychem.
2. The mounting instructions enclosed to each set in suitable form shall be taken into account. Supplementary details of "technical data" shall be taken from these mounting instructions.

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 06, 1999

By order:



Dr.-Ing. U. Klausmeyer
Oberregierungsrat

2nd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1121 U

(Translation)

Equipment: Terminal connection type C-150, connector type S-150... or terminator type E-150...

Marking:  II 2 G EEx e II

Manufacturer: Raychem Corp.

Address: 300 Constitution Drive, Menlo Park, CA 94025-1164, U.S.A.
c/o Raychem GmbH, Grazer Strasse 24-28, D-63073 Offenbach

Description of supplements and modifications

The modifications relate to:

1. the alternative sealing for the band heater entry
2. the alternative electric clamp-type connector for C-150 and S-150
3. the alternative material for the band heater sealing

Technical data

Included in the instructions for installation/operation

Test report: PTB Ex 00-10115

Instructions for installation

Due regard shall be given to the instructions for installation / operation accompanying each set.
For additional details regarding the 'technical data', reference is also made to these instructions.

Zertifizierungsstelle Explosionschutz

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, November 20, 2000