



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 97 ATEX 2113

(4) Equipment: apparatus rack SIRAX BP902 type 902-21... and type 902-28...

(5) Manufacturer: Camille Bauer

(6) Address: Aargauerstrasse 7, CH-5610 Wohlen

(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 97-27096.

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

DIN EN 50 014:1994-03

DIN EN 50020:1996-04

DIN EN 50014/prA1:1996

(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.

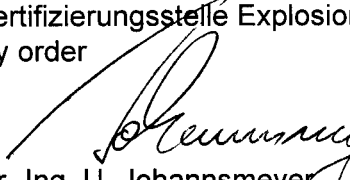
(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

 **II (1) G [EEx ia] IIC**

Zertifizierungsstelle Explosionsschutz

By order


Dr.-Ing. U. Johannsmeyer
Oberregierungsrat



Braunschweig, 29.08.1997

Schedule

(13)

(14) **EC-type-examination Certificate No. PTB 97 ATEX 2113**

(15) Description of equipment

The apparatus racks SIRAX BP 902 are used for rack mounting of associated intrinsically safe modules specifically certified for this purpose by a separate EC-type-examination certificate. The apparatus racks establish the connection between the plugged-on modules and the external terminals and enable the snapping on to a top-hat rail.

The apparatus rack SIRAX BP 902 of type 902-21 is designed to carry one module.

The apparatus rack SIRAX BP 902 of type 902-28 is designed to carry up to eight modules.

The apparatus racks shall be installed outside the explosion hazardous area only.

Electrical data

non-intrinsically safe circuits

maximum voltage of all non-intrinsically safe circuits:

$$U_m = 253 V_{AC} \text{ bzw. } 125 V_{DC}$$

The rated values of the non-intrinsically safe circuits are established in the EC-type-examination certificate of the respective modules. Particularly the maximum values of possible contact circuits must be taken into account.

intrinsically safe circuits

type of protection Intrinsic Safety
resp.

EEx ia IIC/IIB
EEx ib IIC/IIB

maximum values per circuit:

$$U_o \text{ or } U_i = 30 V$$

Additionally the maximum values of the intrinsically safe circuits of the modules used in this rack have to be taken into account accordingly to the associated EC-type-examination certificate. The maximum value mentioned above must not be exceeded even in case of inter-connection of several intrinsically safe circuits.

Schedule to EC-type-examination Certificate No. PTB 97 ATEX 2113

The intrinsically safe circuits are safely electrically isolated from the non-intrinsically safe circuits up to a peak value of the nominal voltage of 375 V.

Concerning the isolation of the intrinsically safe circuits from each other the EC-type-examination certificates of the modules have to be taken into account. There are no additional restrictions due to the apparatus rack.

The assignment of the terminals indicated in the respective EC-type-examination certificate to the external terminals of the apparatus rack is shown in a wiring diagram delivered with each apparatus rack SIRAX BP 902.

Furthermore possible "Special Conditions" of the modules used in this rack have to be taken into account accordingly to the associated EC-type-examination certificate.

(16) Report PTB Ex 97-27096

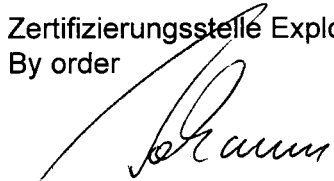
(17) Special conditions for safe use

not applicable

(18) Essential Health and Safety Requirements

met by standards

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