Non authorized translation



(1)

## **EC- TYPE- EXAMINATION CERTIFICATE**

(Translation)

- (2) Equipment and protective systems intended for use in potential explosive Atmospheres **Directive 94/9/EC**
- (3) EC- type- examination Certificate number

## TÜV 00 ATEX 1607 X

- (4) Equipment: Explosion proofed PC components type PC100...
- (5) Manufacturer: Gönnheimer Elektronic GmbH
- (6) Address: D-Neustadt an der Weinstraße
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Hannover/Sachen-Anhalt e.V., TÜV CERT-Zertifizierungsstelle, notified body No. 0032 in accordance with Article 9 of the Council Directive 94/9/EC of March 1994, certifies that 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 potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report No. 99/PX24090

(9) Compliance with to essential Health and Safety Requirements has been assured by compliance with:

EN 50 014:1997 EN 50 017:1994 EN 50 019:1994 EN 50 020:1994

- (10) If the sign "X" is places 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:

#### ⟨Ex⟩ II 2 G EEx e q [ib] IIC T4

TÜV Hannover/Sachen-Anhalt e.V. TÜV CERT-Zertifizierungstelle Am TÜV 1 D-30519 Hannover



Der Leiter

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 TÜV Hannover/Sachsen-Anhalt e.V.

Hannover, 01.09.2000



# (13) **ATTACHEMENT**

## (14) EC- TYPE-Examination CERTIFICATE No. TÜV 00 ATEX 1607 X

#### (15) Description of equipment

The explosion-proof PC component type PC100... works as display unit for an industrial PC, which is must be located in safe area and provides connections of control components for this PC. The PC100 may be placed in hazardous area, in which equipment of the categories 2 and 3 are required.

#### **Electrical details**

All not intrinsically safe connections are implemented in the explosion protection class "increased security".

Mains (Cable harness)	U = 230 V AC U <sub>m</sub> = 253 V AC	
Data interconnections (Cable harness or optional fibre optic)	VGA Signal U <sub>m</sub> = 253 V AC	
Supply (Terminals 11, 12)	U = 24 V, internal connection only $U_m = 253 \text{ V AC}$	
Digital outputs (Terminals 1 10)	internal connection only U <sub>m</sub> = 253 V AC	
Potential equalization (Terminal 13)	Potential equalization, internal connection only	
Potential equalization (external connection)	Potential equalization connection	
Display control (Socket 3 Pin 2, 1; 3, 1; 4, 1; 5, 1; 6,1)	Ex protection Intrinsically safe EEx ib IIC for passive contacts only Maximum each circuit: $U_0 = 27,4 V$ $I_0 = 2,7 mA$ $P_0 = 77 mW$	
	max reactances	$L_0 = 1 \text{ mH}$ $C_0 = 87 \text{ nF}$

### ATTACHEMENT to EC- TYPE-Examination CERTIFICATE No. TÜV 00 ATEX 1607 X



Operator sockets (Socket 1, Pin 1 ... 4 und Socket 2, Pin 1 ... 4) Ex protection Intrinsically safe EEx ib IIC Maximum each channel:  $U_0 = 5,8 V$  $I_0 = 204 mA$  $P_0 = 392 mW$ max reactances  $L_0 = 0,5 mH$  $C_0 = 46 \mu F$ 

- (16) Report No. 00 PX 18000
- (17) Special conditions for safe areaThe potential equalization terminal must be connected with the potential equalization.
- (18) Essential health and safety requirementsNo additional



## 1. Amendment to EC- TYPE- EXAMINATION CERTIFICATE TÜV 00 ATEX 1607 X

#### Manufacturer: Gönnheimer Elektronic GmbH Dr. Julius Leber-Str.2 D- 67433 Neustadt an der Weinstraße

The display of the explosion proofed PC- component type PC100 ... can also be manufactured according to the examination documents witch are listed in the associated test report.

The changes affects to the display sizes 17" and 19", as well as a type with a integrated Touch screen.

All other details, as well as the special conditions do not change.

The test documents are listed in test report No. 03 YEX 550785.

TÜV NORD CERT GmbH & Co. KG TÜV CERT-Zertifizierungstelle Am TÜV 1 D-30519 Hannover Tel.: 0511 9861470 Fax: 0511 988-25555

Der Leiter

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 TÜV Hannover/Sachsen-Anhalt e.V.

Hannover, 25.08.2003



## 2. Amendment to EC- TYPE- EXAMINATION CERTIFICATE TÜV 00 ATEX 1607 X

Manufacturer: Gönnheimer Elektronic GmbH Dr. Julius Leber-Str.2 D- 67433 Neustadt an der Weinstraße

The explosion proofed PC- component type PC100 ... can also be manufactured according to the examination documents witch are listed in the associated test report.

The changes affects to the mechanical build, the internals of the PC required components, the dimensions of the housing and of the display, as well as additional arrangements for cooling of the internal components.

All other details do not change.

The explosion proofed PC- component type PC100 ... according to EC- type- examination certificate TÜV 00 ATEX 1607 X inclusive of the 1. and 2. amendment fulfilled also the requirements of

EN 50 014:1997 + A1 + A2,

EN 50 017:1998,

EN 50 019:2001 + A1 and

EN 50 020:2002

All other details, as well as the "special conditions" do not change.

The test documents are listed in test report No. 04 YEX 551225.

TÜV NORD CERT GmbH & Co. KG TÜV CERT-Zertifizierungstelle Am TÜV 1 D-30519 Hannover Tel.: 0511 9861470 Fax: 0511 988-25555

Der Leiter

Hannover, 10.05.2004

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 TÜV Hannover/Sachsen-Anhalt e.V.