



(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 99 ATEX 1488**

(4) Equipment: Digital Indicator Type D122...

(5) Manufacturer: Gönzheimer Elektronik 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/Sachsen-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 50 020:1994 EN 50 028:1988**

(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:

 **II 2 (1) G EEx ia IIC T6 bzw. EEx m [ib] IIC T6**

TÜV Hannover/Sachsen-Anhalt e.V.  
TÜV CERT-Zertifizierungsstelle  
Am TÜV 1  
D-30519 Hannover

Hannover, 02.11.1999



Der Leiter



(13)

## SCHEDULE

(14) EC- TYPE-Examination CERTIFICATE No. TÜV 99 ATEX 1488

(15) Description of equipment

The digital indicator type D122 ... serves as direct indicator of measured values of intrinsically safe 4 ..20 mA current circuits in explosive endangered areas.

The maximum ambient temperature is 45°C in temperature class T6 and 60°C in the temperature class T5.

Electrical details

Supply and  
signal current  
circuit  
(Terminal 1,2)

Exclusive connection to a certificated intrinsically safe  
current circuit with the following highest values:

$U_i = 65 \text{ V}$   
 $I_i = 160 \text{ mA}$

Effective internal inductivity 40  $\mu\text{H}$   
Effective internal capacity 10 nF

### Only Type D122.T.x.x.x

Supply and  
signal current  
circuit  
(Terminal 1,2)

Exclusive connection to a certificated intrinsically safe  
current circuit with the following highest values:

$U_i = 30 \text{ V}$   
 $I_i = 160 \text{ mA}$   
 $P_i = 1,6 \text{ W}$

Effective internal inductivity 40  $\mu\text{H}$   
effective internal capacity 10 nF

Terminals 3,4

Bridget

### Only TYP 122.x.x.x.BM with additional protection type moulding and the sign EEx m [ib] IIC T6 bzw. EEx m [ib] IIC T5

Input current  
circuit (wire)

$U_m = 250 \text{ V}$  and to connect to ground



### Any types

Alarm current circuits (Terminal 5,6; 7,8) Outputs:	Exclusive connection to a certificated intrinsically current circuit with the following highest values each current circuit:  $U_i = 30 \text{ V}$ $I_i = 160 \text{ mA}$ $P_i = 850 \text{ mW}$
Inputs:	$U_i = 30 \text{ V}$  Effective internal inductivity $\leq 40 \mu\text{H}$ the effective internal capacity is negligibly small

All current circuits are safe galvanically separated up to a nominal voltage of 90 V to each other. The input current circuit by the type D122.x.x.x.BM is internally connected to the supply and signal circuit.

- (16) Report No. 99/PX24090
- (17) Special conditions for safe area  
None
- (18) Essential health and safety requirements  
No additional