



(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 03 ATEX 2090**



(4) Equipment: Indicator type DM110

(5) Manufacturer: Gönnheimer Elektronik GmbH

(6) Address: D-Neustadt/Weinstraße, Dr. Julius Leber-Str. 2

(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 Nord CERT GmbH & Co. KG, 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. 03 YEX  
550438.

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

**EN 50 014:1997 EN 50 017:1998 EN 50 020:2002**

(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. These  
requirements are not listed in this certificate.

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

 **II 2 G EEx q ib II T6**

TÜV Nord Cert GmbH & Co. KG  
TÜV CERT-Zertifizierungsstelle  
Am TÜV 1  
D-30519 Hannover

Hannover, 08.04.2003



**TÜV NORD CERT**

Der Leiter



(13)

## SCHEDULE

(14)

**EC- TYPE-Examination CERTIFICATE No. TÜV 03 ATEX 2090**

(15) Description of equipment

The indicator type DM110... serves as a digital revolution indicator or event counter.

The maximum ambient temperature is 45°C for the temperature class T6 und 60°C for temperature class T5.

Electrical details

| Intrinsically safe ports of type DM110.x.x.0 - EEx ib IIC |                |        |            |                             |
|-----------------------------------------------------------|----------------|--------|------------|-----------------------------|
|                                                           | Maximum values |        |            |                             |
| Terminals                                                 | Ui             | Ii     | Ci, Li     | Denomination                |
| 1,2 to 3,4                                                | 60V            | 160 mA | negligible | Power supply / sensor input |
| 1,2 to 5                                                  | 60V            | 160 mA | negligible | Relay input                 |

| Ports of type DM110.x.x.1           |                             |         |       |               |                             |
|-------------------------------------|-----------------------------|---------|-------|---------------|-----------------------------|
| cable harness                       |                             |         |       |               | Denomination                |
| Brown to blue                       | Um = 250V AC                |         |       |               | Power supply                |
| Green/yellow                        | PE (potential equalization) |         |       |               | PE (potential equalization) |
| Intrinsically safe ports EEx ib IIC |                             |         |       |               |                             |
|                                     | Maximum values              |         |       |               |                             |
| Terminals                           | U0                          | I0      | P0    | C0, L0        | Denomination                |
| 1,2 to 3,4                          | 8,6 V                       | 19,2 mA | 42 mW | 5,9 µF, 70 mH | Sensor input                |
| 1,2 to 5                            | 8,6 V                       | 19,2 mA | 42 mW | 5,9 µF, 70 mH | Relay input                 |

(16) Report No. 03 YEX 550438

(17) Special conditions for safe area

None

(18) Essential health and safety requirements

No additional