**ATEX Labelling & meaning**

**Gas detection computer**

**NDIR-Transmitter for combustible gases**

**Zone 0 and Zone 1**

**Transmitter for toxic gases and oxygen**

**Smart single-gas detectors**

**Function-tested multigas-detectors for up to 7 gases**

### Subdivision of gases and vapours

**Range of application**

- **Category 1:** very high safety level
  - Safety guaranteed by 2 protective measurements / with 2 independent protective systems
  - Application in zone 0, 1, 2 / 20, 21, 22 - Atmosphere G / D

- **Category 2:** high safety level
  - Sufficient safety when small faults occur / with 1 fault
  - Application in zone 1, 2 / 21, 22 - Atmosphere G / D

- **Category 3:** normal safety level
  - Sufficient safety during normal operation
  - Application in zone 2 / 22 - Atmosphere G / D

### Classification of zones

<table>
<thead>
<tr>
<th>Zone</th>
<th>Safety level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 0</td>
<td>IIA</td>
<td>Safe</td>
</tr>
<tr>
<td>Zone 1</td>
<td>IIB</td>
<td>Zone 1</td>
</tr>
<tr>
<td>Zone 2</td>
<td>IIC</td>
<td>Zone 2</td>
</tr>
</tbody>
</table>

### Foreign bodies protection

- **Water protection**
  - 0: no protection
  - 1: vertical falling water
  - 2: dripping water
  - 3: spraying water
  - 4: splashing water
  - 5: water jets
  - 6: powerful water jets

### Ingress protection

**Marking**

- **Ex d**
  - General requirements
  - Flammable enclosure

- **Ex ia**
  - Intrinsically safe

- **Ex mb**
  - Oil immersion

- **Ex mT**
  - Powder filling

- **Ex n**
  - Non-sparking

**New products**

- **GfG**
  - Function-tested multigas-detectors for up to 7 gases

**Gas detection solutions**

- **GfG Gesellschaft für Gerätebau mbH**
  - Founded in 1999
  - WorldWide Supplier Of Gas Detection Solutions

**Contact**

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- **Klönnestrasse 99**

**Statistics**

- **2000 gas detectors**
  - Using over 100 applications

**Certification**

- **Exia**, **Ex d**, **Ex mb**
  - CE mark
  - ATEX Labelling & meaning