Safety Instructions

**RIA14**

Field Indicator

Ex db IIC T4...T6 Gb
RIA14

Field Indicator

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<thead>
<tr>
<th><strong>Associated documentation</strong></th>
<th>To commission the device, please observe the Operating Instructions pertaining to the device: <a href="http://www.endress.com/">www.endress.com</a>&lt;product code&gt;, e.g. RIA14</th>
</tr>
</thead>
</table>
| **Supplementary documentation** | Explosion protection brochure: CP00021Z  
The explosion protection brochure is available on the Internet: [www.endress.com/Downloads](http://www.endress.com/Downloads) |
| **Certificates and declarations** | **NEPSI certificate**  
Certificate number: GYJ20.1355X  
Affixing the certificate number certifies conformity with the following standards (depending on the device version)  
- GB 3836.1-2010  
- GB 3836.4-2010  
**CCC certificate**  
Certificate number: 2020322309002711, 2020322309002714  
Affixing the certificate number certifies conformity with the following standards (depending on the device version)  
- GB/T 3836.1-2021  
- GB/T 3836.4-2021  
ℹ️ Please refer to NEPSI/CCC certificates for conditions of safe use. |
| **Manufacturer address** | Endress+Hauser Wetzer GmbH + Co. KG  
Obere Wank 1  
87484 Nesselwang, Germany |
1. Installation of the field indicator

WARNING
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

Explosion hazardous area
Zone 1, 2
EPL Gb, Gc

Non-hazardous area

Marking of version:
M for thread M20x1.5
N for thread ½” NPT

Terminal 2 and 3
Open Collector

Active Configuration

Connecting an active current source
e.g. a certified sensor with its own power supply

Passive Configuration

Connecting a passive current source
e.g. a certified 2-wire transmitter with additional loop power supply
Safety instructions:
Installation

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The housing of field display must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of EN/IEC 60079-14, paragraph 16 of EN/IEC 60079-0, paragraph 13 of EN/IEC 60079-1 must be used.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- Seal the cable entries with certified cable glands and or blanking elements which have at least type of protection Ex db.
- For operating the display housing at an ambient temperature under -20°C, appropriate cables and cable entries permitted for this application must be used.
- For ambient temperatures higher than +70°C, use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta +5K above surrounding.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.

**WARNING**

Explosive atmosphere

- Do not open the electrical connection of the power supply circuit in an explosive atmosphere.

Safety instructions:
Specific conditions of use

- The flameproof joints are not intended to be repaired.
- When the enclosure is provided with an non-conductive coating, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.

Temperature tables

<table>
<thead>
<tr>
<th>Type</th>
<th>Temperature class</th>
<th>Ambient temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIA14</td>
<td>T6</td>
<td>(-40 ^\circ C \leq T_a \leq +55 ^\circ C)</td>
</tr>
<tr>
<td></td>
<td>T5</td>
<td>(-40 ^\circ C \leq T_a \leq +70 ^\circ C)</td>
</tr>
<tr>
<td></td>
<td>T4</td>
<td>(-40 ^\circ C \leq T_a \leq +80 ^\circ C)</td>
</tr>
</tbody>
</table>
## Electrical connection data

<table>
<thead>
<tr>
<th>Type</th>
<th>Electrical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIA14</td>
<td>Supply</td>
</tr>
<tr>
<td></td>
<td>(Terminals + and - or + and 1)</td>
</tr>
<tr>
<td></td>
<td>$U \leq 35 , V_{DC}$</td>
</tr>
<tr>
<td></td>
<td>$I \leq 200 , mA$</td>
</tr>
<tr>
<td></td>
<td>$P \leq 3 , W$</td>
</tr>
<tr>
<td></td>
<td>Open Collector</td>
</tr>
<tr>
<td></td>
<td>(terminals 2 and 3)</td>
</tr>
<tr>
<td></td>
<td>$U \leq 35 , V_{DC}$</td>
</tr>
<tr>
<td></td>
<td>$I \leq 100 , mA$</td>
</tr>
<tr>
<td></td>
<td>$P \leq 875 , mW$</td>
</tr>
</tbody>
</table>