**TIE-TAG Greuseable**

13.56 MHz transponder for industrial applications in harsh environmental conditions:
- cable, pipe or equipment tagging
- high and long life memory available
- some types certified for ATEX zone 1

This transponder package is available with different chip types. They are integral part of microsensys iID system solution. These special plastic cable binder transponder devices are very useful for tagging solutions in industry and administration.

microsensys offers an attractive component platform for closed coupling RFID solutions.

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**Carrier Frequency:** 13.56 MHz

**Technology:** RFID system iID®2000 or iID®3000, closed coupling, based on ISO 15693 or ISO 14443B

**Memory:** read write type: EEPROM, endurance >100.000 cycles, data retention > 10 years (special types >60 years), ID-No and user OTP possible

**Comm. Distance:** up to 30 mm, dependent on reader antenna and metal environment

**Dimensions:** original tie type plus removable epoxy packaged TAG 19 x 19 mm

**Packaging Material:** chip in multi layer epoxy packaging, front side black EP, hermetically encapsulation

**Mounting Instructions:** by cable binder (material PA6.6)

**Marking:** standard laser printed, optional one colour tampon printing

**Operating Temperature:** -25°C ... +65°C

**Storage Temperature:** -40°C ... +85°C, high temperature on request

**Appropriate RFID Reader:** PEN reader, POCKET mini, CFC reader, M30 HEAD and more

**HOST Command Set:** see actual API documentation of microsensys iID driver engine or data sheets of silicon chip manufacturer

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**TAG Types**

<table>
<thead>
<tr>
<th>System:</th>
<th>Chip Type:</th>
<th>Memory Capacity</th>
<th>Data Retention</th>
<th>Comm. Rate</th>
<th>Comm. Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.32.776.50</td>
<td>iID-M, ATEX</td>
<td>2k RW</td>
<td>&gt;10</td>
<td>26.4</td>
<td>20</td>
</tr>
<tr>
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<td>iID-M long life</td>
<td>2k RW</td>
<td>&gt;60</td>
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<td>16k RW</td>
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<td>64k RW</td>
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<td>106</td>
<td>10</td>
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</tbody>
</table>

* bit

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