Track Balises type **PM500 / PM1020**

Track balises (magnets) PM500 and PM1020 are parts of INDUSI based automatic train protection systems used in order to increase the safety level in railway traffic. Balises are the track (infrastructure) part of ATP system and they perform resonant influence on the locomotive part of the system when the train passes over it.

**Functionality**

Track balises are active in 500 Hz (PM500) area and in 1000/2000 Hz (PM1020) area. 500 Hz influence controls speed on detection point. 1000 Hz influence activates alertness and time control of the engine driver. It also triggers speed control once the time control begins. 2000 Hz influence immediately initiates emergency braking.

**Safety**

Track balises PM500 and PM1020 are tested according to CENELEC norms EN 50121-4 (EMC) and EN 50125-3 (electromagnetic immunity). Track balises are IP67 protected against water and dust. Complete interior of the balise is protected by special resin which enables its operation even after heavy mechanical damage.

**Maintenance**

No need for frequency adjustment or any form of maintenance. Adjustable mounting bracket enables quick position changes and track balise can be mounted on multiple rail types. ALTPRO can provide a testing device (PMI3) which measures all track balise parameters. PC database and reporting application processes data generated by PMI3.
Application

- As a part of any INDUSI based ATP system regardless of the producer (SIEMENS, SEL, ALTPRO...)

System information output

- Track balise frequency (500Hz, 1000 Hz, 2000 Hz)

System benefits

- Exceptional simplicity of the device and its handling
- Encased in robust (fire, water, vibration resistant) casing
- Long guarantee period
- Low life cycle costs
- Low initial investment
- Balise compatible with other INDUSI producers
- Short lead times

Order codes

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Central Device RAS8385 IS</td>
<td>AP108170</td>
</tr>
<tr>
<td>Track Balise PM1020</td>
<td>AP215400</td>
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<tr>
<td>Track Balise PM500</td>
<td>AP215401</td>
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<tr>
<td>Locomotive Balise LLC0512</td>
<td>AP108120</td>
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<tr>
<td>Testing device for track balises PMi3</td>
<td>AP215412</td>
</tr>
</tbody>
</table>

Operating frequency:
- type PM500: 500 Hz, 1000 Hz, 2000 Hz
- type PM1020: 500 Hz

Operating temperature range: -40 °C - +80 °C

Water and dust protection: IP67

Weight: 12 kg

Dimensions: 650 x 300 x 132 mm