P25 Transportable Repeater

Natural disasters, crime scenes, firegrounds and tactical missions – when safety or security is threatened, reliable communications are vital.

Extend your current P25 wide area coverage or set up a dedicated communications network at the scene.

KEY FEATURES

- Intelligent, built-in Task Manager
- Tough, high-spec briefcase
- Dual mode interoperability
- Dual mode operation for ease of analog-to-digital migration
- Proven P25 platform
- Flexible power options
FEATURES AND BENEFITS

You can extend your current P25 wide area coverage or set up a dedicated communications network at the scene in minutes with the Tait P25 transportable base station/repeater. Robust, reliable and secure, the Tait P25 transportable delivers all the trusted features of the TB9100 base station, in a rugged, waterproof Pelican briefcase.

Intelligent, built-in Task Manager
The built-in Task Manager allows you to administer the unit remotely, including configuring alerts and monitoring RF performance.

Tough, high spec briefcase
Protected by a robust, waterproof Pelican briefcase and a reinforced aluminium chassis, the units can withstand the physical demands of the mission-critical environment.

Dual mode interoperability
Digital P25, analog FM or dual mode, means seamless operation between responders and teams with compatible portable and mobile radios. The Tait P25 transportable base station/repeater has been tested under P25 CAP (Compliance Assessment Program) for interoperability and performance.

The Tait transportable base station/repeater is also available as analog FM TB8100.

Proven P25 Platform
The Tait P25 transportable base station/repeater delivers the same interoperability, encryption and RF performance of the standard site-based product.

Flexible power options
Powered by external battery or mains (18-30V), smart AC/DC switching ensures continuity of service.
TB9100 Transportable Repeater

SPECIFICATIONS

**GENERAL**

<table>
<thead>
<tr>
<th></th>
<th>VHF</th>
<th>UHF</th>
<th>700/800MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational frequency</td>
<td>148-174MHz</td>
<td>380-420MHz</td>
<td>762-870MHz</td>
</tr>
<tr>
<td>Channel/network capacity</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Channel spacing</td>
<td>12.5kHz</td>
<td>20kHz, 25kHz</td>
<td></td>
</tr>
<tr>
<td>Channel increment</td>
<td>0.125kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>7.6in x 15.4in x 20.3in (192mm x 392mm x 515mm)</td>
<td></td>
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</tr>
<tr>
<td>Weight</td>
<td>44lbs (+20kg)</td>
<td></td>
<td></td>
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<tr>
<td>Operational temperature</td>
<td>-22°F to 140°F (-30°C to 60°C)</td>
<td>Modular repeater</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td></td>
<td>12V Pa</td>
<td></td>
</tr>
<tr>
<td>Standby</td>
<td>0.67A</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>Tx @ 50W factory preset 15W</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Supply Requirements</td>
<td>88 to 264V</td>
<td>12V external supply negative earth</td>
<td></td>
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<tr>
<td>Mains</td>
<td></td>
<td></td>
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<tr>
<td>DC</td>
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**RECEIVER**

- Analog sensitivity (12dB SINAD): <0.25uV (-119.0dBm)
- Digital sensitivity (TIA/EIA-102): 0.21uV (-120.5dBm) @ 5% BER
- Spurious Response: ±100dB [ANSI/TIA]
- Intermodulation: 80dB [ETSI]

**TRANSMITTER**

- Modulation Limiting: ±2.5kHz
- ±4kHz
- ±5kHz
- Transmitter Power Rating: Single 50W Repeater - factory set to 15W
- FM Hum and Noise:
  - 12.5kHz and 20kHz channels: -49.0dB (300Hz-3kHz [ANSI/TIA])
  - 25kHz channel: -51.5dB (300Hz-3kHz [ANSI/TIA])

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. All specifications shown are typical.

*Contact your local Tait representative for more information.

For further information please check with your nearest Tait office or authorized dealer.

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Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and BS OHSAS 18001:2007 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO 9001.