tait
communications

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.

TB**9100** Transportable Repeater
SPECIFICATIONS

GENERAL

	VHF	UHF	700/800MHz
Operational frequency+	148-174MHz	380-420MHz, 400-440MHz, 440-480MHz	762-870MHz
Channel/network capacity	10		
Channel spacing	12.5kHz, 20kHz, 25kHz		
Channel increment	0.125kHz		
Dimensions (HxWxD)	7.6in x 15.4in x 20.3in (192mm x 392mm x 515mm)		
Weight	<44lbs (<20kg)		
Operational temperature	-22°F to 140°F (-30°C to 60°C)		
Description	Modular repeater		
Power Consumption	**12V Pa**		
Standby	0.67A		
Tx @ 50W factory preset 15W	5A		
Supply Requirements			
Mains	88 to 264V		
DC	12V external supply negative earth		

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]
	85dB [ANSI/TIA]

TRANSMITTER

Modulation Limiting	
12.5kHz channel	±2.5kHz
20kHz channel	±4kHz
25kHz	±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])

Note: This product can no longer be sold in Europe after December 2020.

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 ISO 45001:2018 (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.

Authorized Partners

Quality Management ISO 9001

Environment Management ISO 14001:2015

Occupational Health & Safety Management ISO 45001:2020

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