



TP9100

SPECIFICATIONS



Models shown IS TP9155 and IS TP9160

P25 TRUNKED AND CONVENTIONAL PORTABLE RADIOS

With industry-leading digital audio clarity, superb build quality and DES/AES encryption, the TP9100 is a tough, dependable and sophisticated piece of radio engineering. Fully interoperable, the TP9100 gives you the flexibility of working in digital, analog and auto-sensing dual mode.

Tough, reliable and interoperable

- Superb build quality and user-friendly design
- Tested beyond MIL-STD 810 C, D, E and F – Tait performs tougher drop tests, then performs ingress and other tests on the *same* radio
- Rubber armour knobs and base, recessed lens, strong metal-hinged belt clip and a unique secure battery retention mechanism
- Angled, textured, shaped and colored controls for intuitive useability
- Unique quick reference card creation for each configured radio makes it easy for users to learn
- Programmable power settings, economy mode and intelligent batteries
- Configurable emergency options - man down and lone worker as standard
- Program 1,000 channels, 300 scan groups and 30 tactical zones
- Application Programming Interface places the power to customize a Tait P25 system into the hands of those with ideas, expertise and applications in mind
- Factory Mutual Intrinsically Safe option on both models

Interoperability assured

Genuine open standards ensure choice, value and responsiveness during routine operations or crises.

Digital audio clarity

Crystal clear digital audio allows precise communication even in noisy situations.

Analog operation for phased transition and improved interoperability

Protect your current analog investment and migrate to P25 at your own pace.

Configure to suit with SFEs

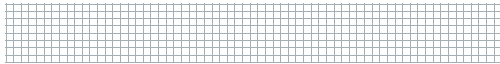
Software feature enablers (SFEs) allow a solution that is readily extended as needs change, removing the risk of hardware upgrades and factory returns. Trunking, P25 CAI, encryption, APIs and conventional OTAR are just some of the SFEs available.

Comprehensive accessory suite

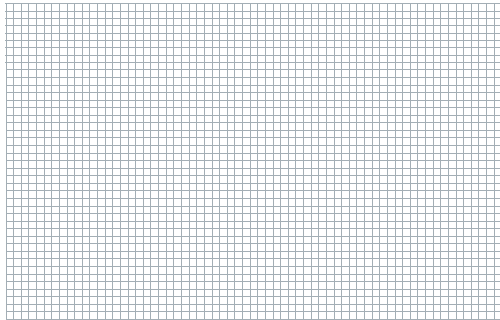
Complement your radio with high performance accessories:

- IP54 speaker microphone
- IP54 RF speaker microphone
- IP68 speaker microphone
- 2-wire and 3-wire lapel microphone
- Lightweight headsets
- Heavy duty headsets
- Single-way smart charger
- Multi-way smart charger





Being a manufacturer of digital and analog terminals, base stations and network equipment means Tait has the solution focus to serve you better. P25 portables, mobiles and the hand-held control head all share the same intuitive interface.



Regulatory Data

USA	VHF UHF 800MHz	CFR 47 Parts 22, 90.210, 74, 90 CFR 47 Parts 22, 90.210, 74, 95A, 90 CFR 47 Parts 22, 90
Canada		RSS-119
Europe		EN300 086, EN300 113 EN301 489 EN60950-01
Australia/New Zealand		A3/NZS4295
Type Approval	FCC	Industrie Canada
	VHF	737A-TPAB1A
	UHF	737A-TPAH5A
		737A-TPAH6A
	800MHz	737A-TPAK5A
Emission Designators		10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K7F1D, 16K0F3E, 6K60FZD, 7K70F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 9K60FZD



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TP9100 Specifications

General

Frequency Ranges	Band	Operational Frequency⁺	
VHF	B1	136-174MHz	
UHF	H4*	380-420MHz	
	H5	400-470MHz	
	H6	450-530MHz	
700/800MHz	K5	Transmit 762-776MHz 792-825MHz 851-870MHz	Receive 762-776MHz 851-870MHz
Frequency Stability	±1.5ppm (22°F to 140°F/-30°C to 60°C)		
Channels/Talkgroups	1,000 channels/30 zones		
Dimensions (DxWxH)	1.9 x 2.6 x 6.6in (47 x 67 x 167mm)		
Weight (includes NiMH battery)	19.7oz (559g)		
Interfaces	Four-line full dot matrix LCD		
Channel Spacing	12.5/15/20/25/30kHz		
Frequency Increment	2.5/5/6.25		
Operational Temperature	-22°F to 140°F (-30°C to 60°C)		
Sealing	IP54 dust and rain		
Rated Audio	>500mW		

Military Standards 810 F*

Applicable MIL-STD	Method	Procedure
Low Pressure	500.4	2
High Temperature	501.4	1, 2
Low Temperature	502.4	1, 2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	1, 3
Humidity	507.4	1
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1, 4

* Also meets equivalent superseded MIL-STD 810 C, D & E.

Transmitter

	VHF	UHF	700/800MHz
Output Power	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W
Modulation Limiting			
25/30kHz channel	±5kHz		
20kHz channel	±4kHz		
12.5kHz channel	±2.5kHz		
FM Hum & Noise			
25/30kHz channel	-48dB	-41dB	-40dB
12.5/15kHz channel	-42dB	-37dB	-34dB
Conducted Emissions	57dBc	57dBc	48dBc
Audio Response (Analog)			
12.5/15kHz	300-2550Hz +/-3dB		
25/30kHz	300-3000Hz +/-3dB		
Audio Distortion (Analog)	<5% @ 1kHz, 60% modulation		
Transmit Attack Time (TIA/EIA 102)	50ms		
Duty Cycle	1min Tx, 4min Rx for 8hrs @ 60°C		

Receiver

	VHF/UHF	700/800MHz
Analog Sensitivity		
12dB SINAD	0.28µV (-118dBm)	0.28µV (-118dBm)
Digital Sensitivity (TIA/EIA-102)		
5%BER	0.20µV (-121dBm)	0.20µV (-121dBm)
Intermodulation Rejection (TIA/EIA 102)	-78dB	-78dB
Adjacent Channel Selectivity		
25/30kHz channel (TIA/EIA 603)	-73dB	-70dB
12.5kHz channel (TIA/EIA 102)	-63dB	-60dB
Spurious Response Rejection	-75dB	-70dB
Residual Audio Noise Ratio (TIA/EIA 102)	45dB	45dB
Audio Distortion @ Rated Audio	<3%	<3%

Battery

Intelligent Battery Options	NiMH, Standard and Intrinsically Safe
Battery Shift Life with NiMH Pack	>12 hours 5/5/90

Charger

Charger Options	Fast desktop smart charger 6-way multi charger
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Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only.

⁺Please note that not all frequency bands are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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*Not type accepted, Federal sales only.