







User Selectable CTCSS/DCS/NAC Picklist.



Front Panel Programming and Radio to Radio Cloning.

TP9800 WILDLAND FIRE RADIO

RUGGED, MULTIBAND, FIELD PROGRAMMABLE

SEAMLESS MULTIBAND PERFORMANCE

The TP9800 Multiband Portable is configurable to operate on any combination of VHF, UHF and 700/800MHz bands. Flexible and simple ordering and deployment of single, dual and multiband operation at time of purchase, or subsequently over the air. Bands are not locked and can be reconfigured.

RUGGED, LIGHTWEIGHT DESIGN

Experience the lightest P25 multiband portable radio on the market with high capacity battery and compact design. To give you maximum reliability, the TP9800 portable radio is IP68 dust and waterproof, IP65 protected from water jets, and MIL-STD 810H withstand high and low temperature, vibration, shock (drop), humidity, salt fog, rain, immersion, sand and dust.

MAXIMUM CONNECTIVITY

Connect to the range of networks in current operations or future technology migrations: Conventional Analog, P25
Conventional Digital, P25 Trunking Phase 1 and Phase 2, with integrated GNSS option for Location Services, Bluetooth® for wireless voice accessories, and WiFi OTAP. Analog signaling options include Two Tone decode, MDC1200, Selcall and user selectable picklists for PL (CTCSS) and DPL (DCS).

EXCEPTIONAL AUDIO

Hear and be heard, even in the most extreme environments, with a powerful 3W speaker, and dual microphone active noise cancellation that removes background noise in both analog and digital modes.

ENHANCED WORKER SAFETY

Man Down and Lone Worker features are included as standard to send automated safety alerts and can combine with location data and Tait GeoFencing software options to guide an effective response. The programmable Emergency key can also send these safety alerts manually.

RUGGED AA BATTERY PACK

Easily replaceable AA batteries keep the TP9800 powered through extended remote area operations. The Tait clamshell battery pack is designed to take knocks and minimize dust and water ingress.

ERGONOMIC USER EXPERIENCE

The TP9800 is designed for easy use in emergency situations, with ergonomic, easy-grip control options; four programmable function keys and a three-way selector; and a range of accessories to tailor your experience.

FIELD PROGRAMMABLE

Authorized users are able to program the TP9800 via the front panel to set channel information, easily configure picklists for CTCSS or DCS subaudible tones and NAC codes. With radio cloning, zone information can be shared throughout your fleet.

PROVEN P25 INTEROPERABILITY

Enable multi-agency response and multivendor compatibility for voice, data and encryption methods – the TP9800 is approved by the TIA-102 P25 Compliance Assessment Program.



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TECHNICAL SPECIFICATIONS

GENERAL							
Frequency stability		±0.5ppm (-22°F to +140°F/-30°C to +60°C)					
Channels/zones		2,000 channels/100 zones					
Talk groups		1000 talk groups, up to 2,000 members total					
Scan groups		300 with up to 50 members each, maximum of 2,000 members total					
Field Programmable		Front Panel Programming, Cloning and User Selectable CTCSS/DCS/NAC Picklists					
Bluetooth®		Supported					
Encryption (via Key-Fill Device or OTAR)		Supported in P25 Operation (FIPS Certified 256-bit AES, DES, ARC4)					
ОТАР		Supported (P25 Trunking, WiFi) – Requires Tait EnableFleet					
Dimensions (with High Capacity battery)		1.77 x 2.56 x 5.71in / 45 x 65 x 145mm (DxWxH excluding knobs and antenna)					
Weight (with High Capacity battery)		13.42oz / 382g (without antenna)					
Supported Languages		English, German, French, Spanish, Portuguese, Czech, Polish, Bulgarian					
Channel Spacing		6.25/12.5/15/20/25/30kHz ²					
Frequency increment		2.5/3.125/5/6.25kHz					
Radio Operating temperature		-22°F to +140°F (-30°C to +60°C)					
Vocoder type		AMBE +2™					
Audio Output		3W					
Signaling options (analog)		MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall					
Water and dust protection		IP68 & IP65 (radio body and li-ion batteries)					
		IP67 (AA clamshell b	attery pack, when close	ed correctly a	and o-ring	properly maintained)	
MILITARY STANDARDS 8	310H (RADIO BO	DOY AND LI-ION BATT	ERIES)				
Applicable MIL-STD	Method	Procedure	Applicable MIL-STD	Meth	nod	Procedure	
Low pressure	500.5	2	Humidity	507.5	5	2	
High temperature	501.5	1, 2	Salt fog	509.	5	1	
Low temperature	502.5	1, 2	Sand & Dust	510.5	5	1, 2	
Temperature shock	503.5	1	Immersion	512.5	;	1	
Solar radiation	505.5	1	Vibration	514.6	3	1	
Rain	506.5	1, 3	Shock	516.6	3	1, 4, 5, 6	
BATTERY							
SHIFT LIFE WITH AA BA	TTERY PACK	Exceeds US DOI red	quirement of 8 hours (1	0/10/80) at 2	2W transr	nit power	
SHIFT LIFE (5/5/90)3 WIT	TH HIGH CAPAC	CITY BATTERY	6W VHF TRANSMIT ¹		5W VHF or UHF TRANSMIT		
P25 Phase 2 / TDMA Mode			17 hours		19 hours		
Analog and P25 Phase 1 / FDMA Mode			13 hours		14 hours		
CHARGER							
Charger options (Li-Ion)	Fast desktop	single charger, 6-way n	nulti charger, vehicle c	harger and b	attery on	ly vehicle charger	
REGULATORY DATA	USA (FCC)	CANADA (ISED)	EUROPE/UK (CE)	AUSTRALI	A/NEW Z	ZEALAND (AS/NZ)	
VHF (136-174MHz)	~	✓	✓	~			
UHF (378-520MHz)	✓	✓	✓	✓ ⁴			
700/800MHz	~	~	~	~			
900MHz ⁶	~	~	-	-			
LIS BLM & NIEC Approval							

US BLM & NIFC Approval Pending



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TECHNICAL SPECIFICATIONS continued

TRANSMITTER	VHF	UHF	700/800MHz	900MHz					
(Note – Radio can be configured to operate on any combination of the supported bands)									
Frequency range	136-174MHz	378-520MHz	757-870MHz	896-941MHz					
Output power (nom)	6W ¹ , 5W, 3W, 2W, 1W	5W ¹ , 4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W					
Modulation limiting									
12.5/15kHz channel	±2.5kHz	±2.5kHz	±2.5kHz	±2.5kHz					
25/30kHz channel ²	±5kHz	±5kHz	±5kHz	±5kHz					
FM hum and noise									
12.5kHz channel	-45dB	-45dB	-40dB	-40dB					
25kHz channel ²	-48dB	-48dB	-45dB	-45dB					
Radiated and conducted emissions	-75dBc	-72dBc	-75dBc	-75dBc					
Audio response (analog)	+1/-3dB	+1/-3dB	+1/-3dB	+1/-3dB					
Audio distortion (analog @1kHz, 60% mod) ⁵	2%	2%	2%	2%					
RECEIVER	VHF	UHF	700/800MHz	900MHz					
(Note – Radio can be configured to operate on any combination of the supported bands)									
Frequency range	136-174MHz	378-520MHz	757-776MHz, 851-870MHz	935-941MHz					
Sensitivity (analog) 12dB SINAD (TIA-603)	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)					
Sensitivity (P25) 5% BER	0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)					
Intermodulation rejection (P25) TIA-102	75dB	75dB	70dB	70dB					
Adjacent channel rejection									
12.5kHz (P25) TIA-102	60dB	60dB	60dB	60dB					
25kHz TIA-603 (2-tone) ²	70dB	70dB	65dB	65dB					
Spurious response rejection (P25) TIA-102	75dB	80dB	70dB	70dB					
Residual audio noise ratio (P25) TIA-102	45dB	45dB	45dB	45dB					
Audio distortion (rated audio)	1.5%	1.5%	1.5%	1.5%					
FM hum and noise (Analog)									

NOTE:

- 1. Very high power only available in USA/Canada.
- $2. \ {\it Wideband operation is not available in the USA in some bands}.$
- 3. Battery performance is dependent on frequency, temperature, and operational configuration.
- 4. The UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programmed to meet the requirements of AS/NZS4365.
- 5. Rated audio (for performance testing) 0.5W.



Tait has taken every care in compiling this brochure, but we're always innovating and therefore changes to our models, designs, technical specifications, visuals and other information included in this brochure could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website www.taitcommunications.com

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