







Tait is your complete supplier of radio communications equipment offering mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.

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.

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## TP8100 Intrinsically Safe

## Specifications

Tait TP8100 Intrinsically Safe (IS) portable radios are essential for organizations serious about mobile communications in hazardous environments.

- Clearly identifiable with an IS logo marked on the radio front panel and battery.
- Front panels are available in yellow, orange and red, in addition to the standard black.
- Tough enough to withstand the harshest environments; engineered to exceed IP67 sealing: zero dust ingress and immersible in one meter of water for 30 minutes.
- Swipe contacts, battery-only or battery-on radio charging, desktop fast chargers provide efficient battery management.
- All Tait TP8100 IS portables are comprehensively approved by Factory Mutual in the categories outlined below.

All standard TP8100 specifications apply to the IS radios. Please see the full TP8100 specifications.

FM Approved*				
IS, Class I, II, III, Division 1, G	roups C, D, E, F, G, T4			
IS	Intrinsically Safe			
Class I	Gas/Petroleum, flammable gases or vapors present (Group C, D)			
Class II	Combustible or conductive dusts are present (Group E, F, G)			
Class III	Ignitable fibres or flyings are present (no group classifications)			
Division 1	The substance referred to by Class is present			
Group C	Ethyl and Ethylene or gases of equivalent hazard			
Group D	Gasoline, acetone, ammonia, methanol, natural gas, propane or gases of equivalent hazard			
Group E	Combustible metal dusts, aluminium, magnesium and their commercial alloys or other combustible dusts that present similar hazards in connection with electrical equipment.			
Group F	Combustible carbonaceous dusts, carbon black, charcoal, coke or coal dusts			
Group G	Flour dust, grain, wood, plastic and chemicals			
T4	Maximum service temperature 135°C			
NI, Class I, Division 2, Group	is A, B, C, D, T4			
NI	Non-Incendive			
Class I	Gas/Petroleum, flammable gases or vapors present (Group A, B, C, D)			
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.			
Group A Group B GroupC Group D	Acetylene Hydrogen, fuel and combustible process gases containing > 30% hydrogen by volume Ethyl and Ethylene or gases of equivalent hazard Gasoline, acetone, ammonia, methonal, natural gas, propane or gases of equivalent hazard.			
Τ4	Maximum service temperature 135°C			
S, Class II, III, Division 2, Gro	ир Е, F, G			
S	Special Protection			
Class II	Combustible or conductive dusts are present (Group E, F, G)			
Class III	Ignitable fibres or flyings are present (no group classifications)			
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.			
Group E	Combustible metal dusts, aluminium, magnesium and their commercial alloys or other combustible dusts that present similar hazards in connection with electrical equipment.			
Group F	Combustible carbonaceous dusts, carbon black, charcoal, coke or coal dusts			
Group G	Flour dust, grain, wood, plastic and chemicals			
	neans these radios are certified for use in hazardous environments in the United States. In other countries, ensure your use of Jork environment does not breach your local restrictions.			
General				
Model	TP8110, TP8115, TP8120, TP8135, TP8140			

Model	TP8110, TP8115, TP8120, TP8135, TP8140				
Frequency range	136-174MHz				
	174-225MHz				
	350-400MHz				
	400-470MHz				
	450-530MHz				
	806-870MHz				
	896-941MHz				
Channel spacing	12.5kHz, 20kHz, 25kHz				
Transmitter power	VHF	UHF	800/900MHz		
	1W, 2.5W, 5W	1W, 2.5W, 4W	1W, 2W, 3W		
Operating temperature	-4°F to 104°F (-20°C to 40°C)				
Environmental	MIL-STD 810 F**				
	High/Low temperature				
	Humidity				
	Blowing/Dripping Rain				
	Blowing Dust				
	Vibration Shock				
	Salt Fog				
	Transit Drop Protection to IP67				
Servicing	These radios can be serviced only at FM approved service centres. Contact your local dealer for details.				
Color options	The TP8100 IS portables are available in yellow, orange and red, in addition to the standard black.				

Color options \*\* ALSO MEETS EQUIVALENT SUPERSEDED MIL-STD 810 C. D AND E