

VITAL ALERT®

OVERVIEW CANARYCOMMPAC

Vital Alert TTE technology enables text, voice and data communications in the most hostile and difficult communication environments in the world such as tunnels, sewers, subways, buildings, mines and military operations. Employing very low frequency (VLF) electromagnetics, Vital Alert TTE radio signals penetrate through solid rock, soil and concrete to connect your team without line of sight.

CanaryCommPac is an exceptionally portable, short range TTE radio system. It is an ideal choice for first responders and military when personnel need to move easily while using voice, and data transmissions. Using CanaryCommPac, people on opposite sides of thick physical barriers can still communicate effectively. CanaryCommPac can be used both above and below ground where typical radios do not work, including underground urban areas such as sewers, tunnels, garages.



CANARYCOMMPAC SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Operating Frequency	1 to 9 kHz (unlicensed) VLF band
Signal Type	Digitally modulated magnetic field
Data Throughput	up to 1.6 kbps half duplex
Voice Communications	1 circuit, half duplex (PTT) at 800bps
Power Supply	+24V DC
External Battery	24V Primary or Secondary BB-2590/U compatible
Battery Endurance	> 8 hours (BB-2590/U) Sleep mode also available
Charger	24V universal input (90/260 VAC, 50/60Hz
Range Through Solid Material (Vertical or Horizontal)	50m with body worn antenna, up to 300m with external loop antenna

USER INTERFACES

Keypad	4 button Menu Navigation
Status Display	Radio and Battery Status Text Messages Terminal Configuration System Status

EXTERNAL INTERFACES

Audio	Handset with display and PTT button
Sensor Data	RS-485, 2 x Digital input (isolated 5V)
Control Output	2 x Digital output (isolated 5V) 1 x Form C relay
System Configuration	CanaryGUI Windows PC based configuration software via programming cable. Internally stored configurations are selected via the user interface.

REGULATORY COMPLIANCE

The CanaryCommPac TTE Terminal is designed to the following regulatory standards:

FCC Part 15 Class A
ICES-003
CSA/UL1950
CE
VCCI (Japan)

PHYSICAL SPECIFICATIONS

The CanaryCommPac terminal is housed in a waterproof case. The Rx and Tx antennas are located outside the enclosure.

Dimensions	Terminal: 20 x 9.5 x 3.8 cm (7.8 x 3.8 x 1.5 in) Handset: 16 x 6 x 2.2 cm (6.1 x 2.5 x 0.9 inches)
Weight	Terminal + Handset: 1.4 kg (3 lb)
Operating Temperature	-35°C to +45°C
Humidity	0 to 95%
Vibration	MIL-STD-810G ground transportation
Shock	MIL-STD-810G transit drop test
Water, Dust Ingress	IP 65, MIL-STD-810G rain

OPTIONS



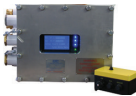

Body worn loop antenna (50m range)

5m extended antenna (100m range)

VHF/UHF/MESH radio interface

ALL PRODUCTS

All products are designed for seamless interoperability to accommodate flexible configuration.

INFRASTRUCTURE, PUBLIC SAFETY, MILITARY	MINING		WIRELESS ACTUATION
			
CanaryTalk	CanaryCommPac	CanaryComm-IS	CanaryBlast CanaryRemote
TTE voice and data communication where depth is a priority over portability	TTE voice, text and data communication where ultra-portability is a priority over depth	Intrinsically safe system for TTE voice, text and data communication	TTE remote control unit for one-way wireless detonation and remote actuation
7.4kg	2kg	64kg	0.5kg
Portable	Portable	Fixed	Portable
Two Way Link	Two Way Link	Two Way Link	One Way Link
Voice, Data	Voice, Data	Voice, Data, Text	Data
Up to 300m depth	Up to 300m depth	Up to 300m depth	Up to 70m
5m loop antenna	Variable	Variable loop antenna	Integrated ferrite antenna

Note: The range at a particular location is dependent on the propagation conditions and noise level