

VITALALERT®

OVERVIEW CANARYREMOTE

Vital Alert Through-the-Earth technology enables secure, emergency and day-to-day text, voice and data communications in some of the most hostile and difficult communication environments in the world such as tunnels, sewers, subways, buildings, mines and military operations.

CanaryRemote is a one-way data link remote control unit that allows operators to control, reset, or reconfigure equipment from a distance. It can be used with the CanaryTalk, CanaryComm, and CanaryComm-IS to execute commands such as remote activation of sensors or pumps and remote detonation both above and below ground.



CANARYREMOTE SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Operating Frequency	1 to 9 kHz (unlicensed) VLF band
Signal Type	Digitally modulated magnetic field
Data Throughput	Up to 1 kbps (receive only)
Power Supply	2 x AA alkali battery
Battery Endurance	Up to 10 days in sleep mode
Range Through Solid Material	Up to 70m (depending on Tx antenna size)
Control Protocol	Proprietary, based on encoded command words and CanaryRemote unique ID

PHYSICAL SPECIFICATIONS

The CanaryRemote system is designed to operate in non weather-protected and underground environments. Environmental specifications are compliant with MIL-STD-810G.

Dimensions	17cm x 6cm diameter (6.5" x 2.5")
Weight	0.5kg (1lb)
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-67

EXTERNAL INTERFACES

Control Output	Digital output (isolated 5V) Other options available, contact Vital Alert for details.
System Configuration	Factory configured





REGULATORY COMPLIANCE

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

FCC Part 15 Class A
ICES-003
CSA/UL1950

ALL PRODUCTS

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

INFRASTRUCTURE, PUBLIC SAFETY, MILITARY	MINING	WIRELESS ACTUATION
		
CanaryTalk	CanaryCommPac	CanaryComm-IS
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
7.4kg	2kg	64kg
Portable	Portable	Fixed
Two Way Link	Two Way Link	Two Way Link
Voice, Data	Voice, Data	Voice, Data, Text
Up to 300m depth	Up to 300m depth	Up to 300m depth
5m loop antenna	Variable	Variable loop antenna
		
		CanaryBlast CanaryRemote
		TTE remote control unit for one-way wireless detonation and remote actuation
		0.5kg
		Portable
		One Way Link
		Data
		Up to 70m
		Integrated ferrite antenna

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