DTEx Series

MED Fire Fighter Portables

MED Approved

**ATEX II 2G Ex ib IIB T4 Gb
ATEX II 2G Ex ib IIC T4 Gb**

DMR Digital & analogue modes

Submersible IP68

Ex

DMR
DIGITAL MOBILE RADIO ASSOCIATION

0560

0558/2023

Tough
CRYSTAL
CLEAR
AUDIO

Submersible

Dependable

CH 01
DIGITAL   467.525MHz

DTEx Series

MED Fire Fighter Radios

The industrial grade DTEx Fire Fighter Series is designed and approved to meet the latest MED standard implementation regulation MED/5.20 and European ATEX directive.

Available in both VHF and UHF models, the ultra-durable fire-red coloured DTEx Series sets the benchmark for next-generation MED-compliant Firefighter radios. Standard features include analogue and digital modes of operation, high visibility OLED display, high torque ergonomic controls designed for gloved-hand use, and industry-leading IP68 2 metres 4 hours submersible rating, to provide 100% reliability and usability even in the most extreme conditions.

Loudest and Clearest Audio – in class

Using the latest noise reduction technology, our DTEx portables deliver loud and intelligible audio, essential when working in high ambient noise environments.

IP68 2 Metres, 4 Hours Submersible

The DTEx Series delivers a class-leading IP68 2 metres for 4 hours submersible rating, the highest IP rating of any manufacturer. This rating ensures protection against corrosion and likely hazards encountered in life at sea.

Intrinsically Safe Approved

ATEX Approved IIC - The DT900FF Series of ATEX-certified portables meet IIC gas group, the most stringent ATEX rating as per EU Directive 2014/34/EU.

ATEX Approved IIB - The DT800FF Series of ATEX-certified portables meet IIB gas group, the minimum gas group requirement as per MED/5.20 Directive.

Industrial Grade Construction

Every aspect of the DTEx radios industrial grade design has been meticulously considered, from the high contrast OLED display, readable in all light conditions, to the high torque controls and the ultra-tactile front buttons that ensure reliable operation even when using gloved hands.

Benefits of Digital

Aside from crystal clear, intelligible audio, there is increased range and battery endurance. DTEx also supports analogue mode, ensuring backwards compatibility with any existing analogue radios onboard.

*Digital mode is only available on UHF DTEx radios.

Informative display shows the channel number and the frequency

VHF display shows the channel name and number

UHF model   VHF model

Intelligent Batteries

Entel's intelligent Lithium-ion batteries are designed to deliver optimum performance and safety. In digital mode, the duty cycle of a DTEx Fire Fighter radio is more than 18.5 hours from a single charge!

Dedicated Accessories for Fire Fighters

Entel also offers an extensive range of ATEX approved accessories. The most popular with Fire Fighters is the CXR bone conductive throat and skull microphones. They eliminate ambient noise through DTEx's speech tailoring technology that delivers intelligible communications first time, every time. Also approved is a range of Draeger BA and Savox speaker microphones.

Simple Onboard Reprograming App

With our free, unique and simple-to-use PC app, you can easily reprogram DTEx radios whilst still onboard.

The user-friendly app makes it easy to drag and drop a new programming file from an email to your DTEx radio(s).

This simple and seamless process can be carried out by non-technical personnel.

High-Grade Accessory Interface

The rugged, multi-pin interface and Micro-USB socket are submersible and gold-plated to minimise any risk of damage and protect against corrosion.

To ensure the integrity of intrinsically safe protection levels and safeguard against non-compliant accessories usage, any accessory connected to the handset automatically undergoes a validation process.

All DTEx accessories incorporate a robust locking connector to safeguard the user further.

Model List

Model	ATEX Approval	Frequency	Analogue/Digital
DT844FF	IIB	VHF	Analogue
DT944FF	IIC	VHF	Analogue
DT885FF	IIB	UHF	Analogue & Digital
DT985FF	IIC	UHF	Analogue & Digital

Key Features

- ✓ Industrial grade construction
- ✓ IP68 submersible
- ✓ Digital and analogue modes
- ✓ Outstanding range and performance
- ✓ Crystal clear audio

- ✓ High contrast white on black OLED
- ✓ Simple onboard reprogramming app
- ✓ Extensive range of approved accessories
- ✓ Supports 3rd party BA kit
- ✓ Audio accessory optimisation

Technical Specification

General

General		
Frequency Range	VHF UHF	156-163MHz 450-470MHz
Channel Spacing	12.5 & 25KHz	
Operating Voltage	7.4v	
Weight	435g	
Overall Dimensions (HxWxD)	138mm x 60mm x 38mm	
Channels	VHF UHF	INT/USA/CAN plus private up to 99

Battery Endurance (5/5/90)	Model	Analogue mode	Digital mode
	DT844FF	10 hours	n/a
	DT944FF	16 hours	n/a
	DT885FF	14 hours	17 hours
	DT985FF	16 hours	18 hours

Transmitter

Transmitter		
Output Power UHF	ATEX IIC ATEX IIB	1 Watt / ERP 2 Watts / ERP
Output Power VHF	ATEX IIC ATEX IIB	1 Watt 3.9 Watts

Receiver

Receiver	
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER

Environmental

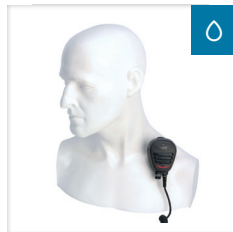| Environmental	
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	
Humidity	
Shock & Vibration	Compliant MIL-STD810 C/D/E/F/G
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible
Approvals	EN 300 720 v2.1.1 EN 301 178 v2.2.2 EN 301 843-1 v2.2.1 EN 301 843-2 v2.2.1 EN 301 489-1 v2.2.3 EN 301 489-5 v2.2.1 EN 300 113 v2.2.1 EN 60945:2002 EN 62368-1:2020 +A11:2020 EN 50566:2017 EN 62311:2008 & EN 62209-2:2010
NBO 'Certification'	www.entel.co.uk/med
Ex Protection	ATEX II 2G Ex ib IIB T4 Gb ATEX II 2G Ex ib IIC T4 Gb

Recommended Package

Typical Package 1	Typical Package 2
QTY2 DT Fire Fighter Radios	QTY2 DT Fire Fighter Radios
Supplied with: • Li-ion battery pack • Drop in charger • Spring loaded belt clip • Antenna	Supplied with: • Li-ion battery pack • Drop in charger • Spring loaded belt clip • Antenna • Bone conductive accessory

Accessories

Supplied package includes: Li-ion battery pack, drop-in charger, belt clip, high-efficiency antenna and quick-start user guide.
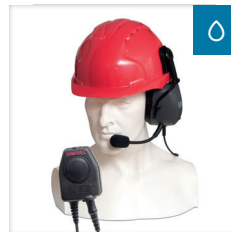

CSBHT
Intelligent six-pod rapid charger

CMP/DT9 Heavy-duty speaker microphone for DT800FF and DT900FF series
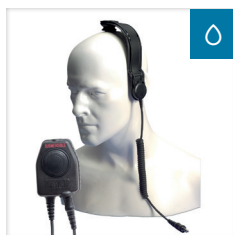

CLCDT5
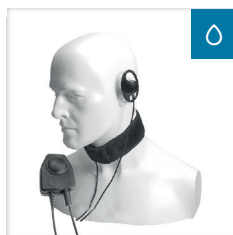A heavy-duty leather carry case with swivel belt loop and strap

CHPHS/DT9*
Single-sided ear defender headset for hard hat use

CHPD/DT9*
Double-sided ear defender headset with headband

CXR5/DT9*
Bone conductive skull mic with heavy-duty PTT

CXR16/DT9*
Throat mic/earpiece with heavy-duty PTT

3rd Party BA
Supports 3rd party BA comms kits

Submersible products are represented with a water droplet.

For the complete range of accessories please visit our website. All specifications are subject to change without notice.

* Submersible - PTT only

Full list of accessories available online.

Contact

Designed in the United Kingdom

For more information about our products, please contact us:
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