

Business
Critical
Communications



Entel

DTEX Series

MED Fire Fighter Portables

 MED Approved

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

 Digital & analogue modes

 Submersible IP68



0063



0558

Tough | CRYSTAL
CLEAR
AUDIO
Submersible
Dependable



DTE_x Series

MED Fire Fighter Radios

The industrial grade DTE_x 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 DTE_x 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.

Loud and Clear Audio

Our DTE_x Series delivers loud and intelligible audio, essential when working in high ambient noise environments. The accessory range incorporates a robust locking plug, high-grade cable and intelligent speech tailoring technology that automatically optimises the audio for the type of accessory connected, always ensuring the best performance.

IP68 2 Metres, 4 Hours Submersible

The DTE_x 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 DTE_x 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 the exceptional audio you will also benefit from increased usable range with no degradation of quality or interference. There are two digital modes 6.25KHz Digital and DMR (see table below) DTE_x Series can uniquely be programmed to operate in either of the digital modes or analogue mode. Digital operation is only approved for use on the UHF marine band.

Mode	Vessel Flag	VHF or UHF
Analogue	EU and non-EU	VHF or UHF
6.25KHz Digital	EU and non-EU	UHF
DMR Digital	non-EU	UHF



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 DTEEx Fire Fighter radio is more than 18 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 DTEEx's speech tailoring technology that delivers intelligible communications first time, every time. Also approved is a range of Draeger BA and Savox speaker microphones.

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



Easily Reprogram your radios ...even at sea!

With our free, unique and simple-to-use PC app, you can easily reprogram a DTEEx radio whilst still onboard. The user-friendly app makes it easy to drag and drop a new programming file, sent from your Entel Dealer by email, to your DTEEx radio(s). This simple and intuitive process can be carried out by non-technical personnel.

Emergency Primary Battery

The CLB850FF emergency one-shot battery delivers a 20-hour duty cycle **available for DT844FF & DT885FF models only.

Model List

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

Key Features

- ✓ Industrial marine grade construction
- ✓ IP68 submersible
- ✓ Digital & analogue modes
- ✓ Outstanding range and performance
- ✓ Simple onboard reprogramming app
- ✓ Extensive range of approved accessories
- ✓ Supports 3rd party BA kit
- ✓ Audio accessory optimisation
- ✓ IP Multisite Roaming (digital mode only licenced option)
- ✓ Locking accessory connector

Technical Specification

General			
Frequency Range	VHF	156-163MHz	
	UHF	450-470MHz	
Channel Spacing	6.25, 12.5 & 25KHz		
Operating Voltage	7.4v		
Weight	435g		
Overall Dimensions (HxWxD)	138mm x 60mm x 38mm		
Channels	VHF	INT/USA/CAN plus private	
	UHF	up to 99	
Battery Endurance (5/5/90)	Model	Analogue/6.25KHz	DMR
	DT844FF	10 hours	n/a
	DT944FF	16 hours	n/a
	DT885FF	14 hours	17 hours
	DT985FF	16 hours	18 hours
Transmitter			
Output Power UHF	ATEX IIC	1 Watt / ERP	
	ATEX IIB	2 Watts / ERP	
Output Power VHF	ATEX IIC	1 Watt	
	ATEX IIB	3.9 Watts	

Receiver	
Sensitivity (Typical)	Analogue -121dBm (0.2uV) for 12dB SINAD Digital -121dBm (0.2uV) for 5% BER
Environmental	
Operating Temperature	-20°C to +40°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

QTY 2 Fire Fighter Radios	
Supplied with:	<ul style="list-style-type: none"> Rechargeable Li-Ion battery pack Emergency battery (DT844FF & DT885FF only) Drop in charger Spring loaded belt clip Antenna
	<ul style="list-style-type: none"> Bone conductive accessory

Accessories

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



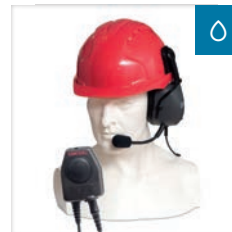
CSBHT
Intelligent six-pod rapid charger



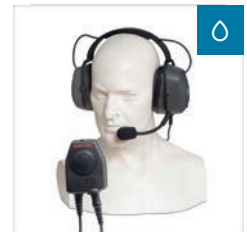
CLB850FF
ATEX approved emergency one-shot battery pack



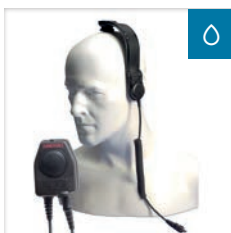
CLCDDT5
A heavy-duty leather carry case with swivel belt loop and strap



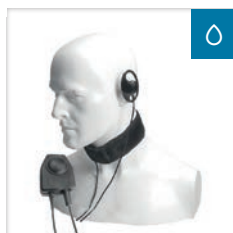
CHPHS/DT9*
Single-sided ear defender headset for hard hat use



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.

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