MARINE

Entel

ATEX

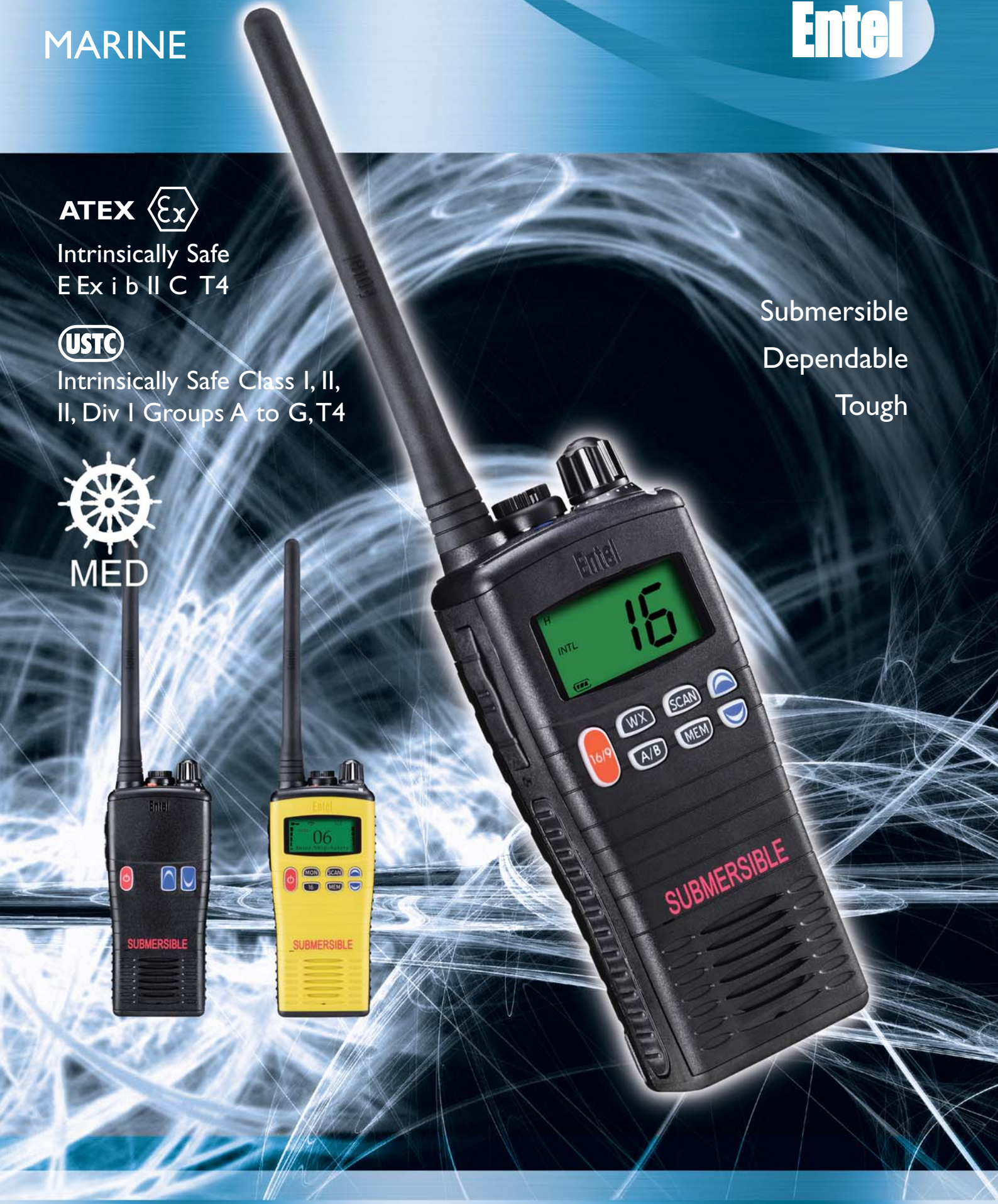
Intrinsically Safe
E Ex i b II C T4

USTC

Intrinsically Safe Class I, II,
II, Div I Groups A to G, T4

MED

Submersible
Dependable
Tough



HT Series 2.0

HT series features

Pictured: Radio with optional CSAHT rapid charger

HT Marine Series 2.0 – superseding the multi award-winning HT series 1.0 is a challenging task considering its success with fire brigades, petrochem, shipping and major blue chip organisations worldwide. Version 2.0 builds upon this success with a wider range of models to suit every application from simple to advanced. Built to last, the HT Series 2.0 is designed to endure the every day rigours of life at sea.

Commercial Grade Construction – exceeding MIL STD 810C/D/E/F rating for tough enduring performance the HT Series 2.0 is designed to withstand shock, vibration, dust and moisture, ensuring many years of trouble free use in the most hostile environments.

Superior Audio Quality – the HT series 2.0 delivers loud, crisp audio using the latest compander noise reduction technology no matter what environment you are in.

Intelligent Lithium-Ion Battery With Built In Charge Cycle Monitoring – this very latest technology gives you four essential advantages:

1) For your convenience the HT Series 2.0 will count charge cycles of your battery pack, warning you when it is nearing the end of its life. Models equipped with an LCD will also display the battery charge count.
2) Extended duty cycle.
3) Not prone to the dreaded memory effect that Nicad and Ni-MH battery packs suffer from, therefore no need to fully discharge your battery pack before charging.
4) Stores a charge up to three times longer than a Nicad battery.

Submersible – conforming to European IP68, the HT Series 2.0 offers the highest submersibility rating of any manufacturer. This unique series protects against corrosion, withstanding total immersion in water to a depth of 5 metres for 1 hour to protect against the likely hazards encountered in any field of operation.

ATEX Approved – the HT Series 2.0 incorporates the HT900 range of ATEX certified portables that meet IIC, T4 – the most stringent ATEX rating as per EU directive 94/9/EC. For full details refer to the ATEX DATA SHEET available here: www.entel.co.uk/atex

USTC Approved – for outside EU and EFTA countries the HT series also offers a complete range of USTC certified portables. These may also be used for certain marine applications within EU/EFTA jurisdiction, where ocean-going vessels exceed 500 gross tonnes and are covered by the IMO convention. For full details refer to the USTC DATA SHEET available here: www.entel.co.uk/ustc

GMDSS Approved – not only fully compliant to IMO and wheel marked, the Entel GMDSS models are also intrinsically safe (both ATEX and USTC certification is available). Entel is the first manufacturer to offer a solution to ship owners who, quite rightly, have been demanding an intrinsically safe approved GMDSS portable for their hazardous cargo vessels. It is mandatory, by law, for hazardous cargo vessels to use intrinsically safe radios. Why should their GMDSS portables be any different?

Model Selection:

⚙ = MED approved

		Entry	LCD UHF	LCD VHF	Entry GMDSS	LCD GMDSS
Not Instrinsicaly Safe	Marine VHF (156-163.275MHz)	HT642		HT644	HT648 ⚙	HT649 ⚙
	Marine UHF (400 - 470MHz) [450 - 520MHz]	HT782 [HT782-U]	HT783 [HT783-U]			
	Land	See Land Brochure				
	PMR446	See PMR446 Brochure				
	MPT1327	See MPT1327 Brochure				
USTC	Marine VHF (156-163.275MHz)	HT842		HT844	HT848 ⚙	HT849 ⚙
	Marine UHF (400 - 470MHz) [450 - 520MHz]	HT882 [HT882-U]	HT883 [HT883-U]			
	Land	See Land Brochure				
	MPT1327	See MPT1327 Brochure				
ATEX	Marine VHF (156-163.275MHz)	HT942		HT944	HT948 ⚙	HT949 ⚙
	Marine UHF (400 - 470MHz) [450 - 520MHz]	HT982 [HT982-U]	HT983 [HT983-U]			
	Land	See Land Brochure				
	PMR446	See PMR446 Brochure				
	MPT1327	See MPT1327 Brochure				

	Entry	LCD UHF	LCD VHF	Entry GMDSS	LCD GMDSS
General Features					
Environmental protection to IP68 (submersible - 5m for 1 hour)	✔	✔	✔	✔	✔
MIL STD 810C/D/E/F	✔	✔	✔	✔	✔
1800mAH Li-Ion battery	✔	✔	✔	✔	✔
Low battery alert	✔	✔	✔	✔	✔
Flash upgradeable to add future features	✔	✔	✕	✔	✔
Channel capacity	16	255	INT, USA, CAN	16	INT, USA, CAN
Private channels	✔	✔	✔	✔	✔
Robust accessory connector	✔	✔	✔	✔	✔
LCD display	✕	✔	✔	✕	✔
Channel naming	✕	✔	✕	✕	✔
Voice annunciation (option)	✔	✔	✕	✔	✔
Bluetooth wireless comms (option)	✔	✔	✕	✔	✔
Clone data from one radio to another	✔	✔	✔	✔	✔
For - Convenience					
Voice scrambler	✔	✔	✕	✔	✔
VOX hands free	✔	✔	✔	✔	✔
Battery charge count (requires LCD to display)	✔	✔	✕	✔	✔
Receive signal strength indicator	✕	✔	✕	✕	✔
For - Safety					
GPS location information with emergency (option)	✕	✕	✕	✔	✔
GPS navigate to casualty (option)	✕	✕	✕	✔	✔

* A full-featured version of the LCD VHF is available as a special order

The HT900 Series 2.0 conforms to Europe's stringent ATEX Directive for instrinsically safe portables used in hazardous locations.

E	Approved in accordance with the European standards (EN 50014, EN 50020)
Ex	Explosion proof equipment
i	Intrinsically Safe - the energy levels in the circuits cannot cause accidental detonation
b	Area classifications 1, applying to zones 1 & 2
II	For use in areas where there is some risk of detonation
C	The most hazardous gas grouping, including hydrogen and acetylene
T4	Based on the surface temperature not exceeding 135°C.

Area classification

Zone 1 covers areas where the environment is occasionally hazardous
Zone 2 covers areas where the environment is only rarely hazardous, and then only for brief periods.

Pictured: UHF ATEX variant with stubby antenna

The HT800 Series 2.0 is USTC Certified, and approved for use in hazardous locations. The certification code is interpreted as follows:

Classes I, II & III, Div 1

Group A
Group B
Group C
Group D
Group E
Group F
Group G
— Flammable gases & vapours

and non incendive Class 1, Div 2,

Groups A, B, C, D hazardous locations.

T4 Indicates maximum surface temperature should not exceed 135°C

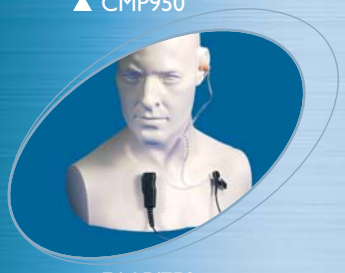
'the professional's choice'

■ CSAHT

■ CSBHT

■ CMP750
● CMP850
▲ CMP950

■ EA19/750
● EA19/850
▲ EA19/950



■ EA15/750
● EA15/850
▲ EA15/950

■ EA12/750
● EA12/850
▲ EA12/950

■ CXR5/750
● CXR5/850
▲ CXR5/950

■ CXR16/750
● CXR16/850
▲ CXR16/950

■ CHP750D
● CHP850D
▲ CHP950D

■ CHP750HS
● CHP850HS
▲ CHP950HS

■ **Not intrinsically Safe**

● USTC

▲ ATEX

For the latest and complete range of accessories visit **www.entel.co.uk**

technical specifications

General Features

RF power output	VHF	5W (high) / 1W (low)
	UHF	4W (high) / 1W (low)
	GMDSS	2W
RF power output USTC	VHF/UHF	4W (high) / 1W (low)
	GMDSS	2W
RF power output ATEX	IIA	4W
	IIB	3.5W
	IIC	1W
	GMDSS (IIC)	1W
Frequency range VHF	156 to 163.275MHz INT, USA, CAN	
Frequency range UHF	400 to 470MHz	
Frequency range UHF u/band	450 to 520MHz	
Channels	See general specifications	
Environmental protection	IP68 submersible 5m for 1 hour	
Military Standard	MIL STD 810C/D/E/F	
Dimensions*	130mm(h) x 59.5mm(w) x 37mm(d)	
Weight	277g (with battery and aerial)	
Audio output	660mW - distortion: < 3% @ 500mW	

*Dimensions are based on radio with attached battery, excluding knobs, antenna and protrusions.

Supplied Accessories

7.4v, 1800mAh Li-Ion battery**

Trickle charger is included with HTX42 and HTX44 variants

Spring loaded belt clip**

High efficiency antenna

User guide CD

**GMDSS models can be supplied in different package combinations. Please consult your local dealer.

For a full and detailed specification see our web site www.entel.co.uk

Your local professional dealer