

MARINE

Entel

ATEX



II 2 G Ex ib IIA T4  
II 2 G Ex ib IIC T4



Submersible  
Dependable  
Tough



SUBMERSIBLE

HT Series 2.0

# HT Series Features



Heavy duty locking accessory connector

Pictured: Radio with optional CSAHT trickle 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. Series 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 everyday 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 submergibility 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 IIC** - The HT900 range of ATEX certified portables meet IIC T4 - the most stringent ATEX ratings as per EU directive 94/9/EC.

For full details refer to the ATEX DATA SHEET available here: [www.entel.co.uk/atex](http://www.entel.co.uk/atex)

**ATEX Approval IIA** - The HT800 range of ATEX certified portables meet IIA T4 with 4 watts RF power, for those users not restricted to the IIC 1 watt regulatory classification.

**IECEX Approval** - The HT500 range of intrinsically safe certified portables are suitable for those users who do not need to comply with the European ATEX standard.

**MED Approved** - Our HT649 GMDSS portable is MED certified and carries the essential Wheel Mark logo. For those requiring a full featured GMDSS portable, with high visibility back-lit LCD, the HT649 is one of the most advanced GMDSS portable available.

## Model Selection:



Entry

LCD UHF

LCD VHF

LCD VHF ATIS

LCD GMDSS

⚙️ = MED approved

<b>Not Intrinsicly Safe</b>	Marine VHF (156-163.275MHz)	HT642	HT644	HT644 ATIS	HT649 ⚙️
	Marine UHF (400 - 470MHz)	HT782	HT783		
	Land	See Land Brochure			
	PMR446	See PMR446 Brochure			
	MPT1327	See MPT1327 Brochure			
<b>IECEX Intrinsicly Safe</b>	Marine VHF (156-163.275MHz)	HT542	HT544		
	Marine UHF (400 - 470MHz)	HT582	HT583		
	Land	See Land Brochure			
	PMR446	See PMR446 Brochure			
	MPT1327	See MPT1327 Brochure			
<b>ATEX IIC Intrinsicly Safe</b>	Marine VHF (156-163.275MHz)	HT942	HT944	HT944 ATIS	
	Marine UHF (400 - 470MHz)	HT982	HT983		
	Land	See Land Brochure			
	PMR446	See PMR446 Brochure			
	MPT1327	See MPT1327 Brochure			
<b>ATEX IIA Intrinsicly Safe</b>	Marine VHF (156-163.275MHz)	HT842	HT844	HT844 ATIS	
	Marine UHF (400 - 470MHz)	HT882	HT883		
	Land	See Land Brochure			
	PMR446	See PMR446 Brochure			
	MPT1327	See MPT1327 Brochure			



Entry

LCD UHF

LCD VHF

LCD VHF ATIS

LCD GMDSS

### General Features

Environmental protection to IP68 (submersible - 5m for 1 hour)	✓	✓	✓	✓	✓
MIL STD 810C/D/E/F	✓	✓	✓	✓	✓
Li-Ion battery	✓	✓	✓	✓	✓
Flash upgradeable to add future features	✓	✓	✗	✓	✓
Channel capacity	16	255	INT, USA, CAN	INT, USA, CAN	INT, USA, CAN
Private channels	✓	✓	✓	✓	✓
Robust accessory connector	✓	✓	✓	✓	✓
LCD display**	✗	✓	✓	✓	✓
Channel naming	✗	✓	✗	✓	✗

### For - Convenience

Low battery warning	✓	✓	✓	✓	✓
VOX hands free	✓	✓	✓	✓	✓
Battery charge count (requires LCD to display)	✓	✓	✗	✓	✗
Receive signal strength indicator	✗	✓	✗	✓	✓

### For - Security

Programmable scrambler (voice inversion)	✓	✓	✗	✗	✗
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\*\* A full-featured version of the LCD VHF is available as a special order.

### Example of classification, based on IIC, 1 Watt:

- Ex Explosion proof equipment
  - i Intrinsically Safe - the energy levels in the circuits cannot cause accidental detonation
  - 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 professional's choice'



■ CSAHT



■ CSBHT



■ CMP750  
▲ CMP950



■ EA19/750  
▲ EA19/950



■ EA15/750  
▲ EA15/950



■ EA12/750  
▲ EA12/950



■ CXR5/750  
▲ CXR5/950



■ CXR16/750  
▲ CXR16/950



■ CHP750D  
▲ CHP950D



■ CHP750HS  
▲ CHP950HS

■ Not intrinsically Safe



# Technical Specifications

## General Specifications

RF power output	VHF	5W (high) / 1W (low)
	UHF	4W (high) / 1W (low)
	GMDSS	1W
RF power output ATEX	IIA	4W (UHF) / 4W (VHF)
	IIC	1W
RF power output IECEx	4W (high) / 1W (low)	
Frequency range VHF	156 to 163.275MHz INT, USA, CAN	
Frequency range UHF	400 to 470MHz	
Frequency range UHF u/band	450 to 520MHz	
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	1W typ. 8 ohm load	

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

## Supplied Accessories

7.4v, 2000mAh Li-Ion battery (Except for ATEX models which have 1800mAh)\*\*

Trickle charger (except for HT649/PI)

Spring loaded belt clip\*\*

High efficiency antenna

User Guide

\*\* 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](http://www.entel.co.uk)

Your local professional dealer

