

# 'storm survivor' by Entel

## HT900 Series

ATEX approved  
Intrinsically Safe,  
EEx ib II C T3



**Submersible**  
**Dependable**  
**Tough**



**Entel UK**

# HT900 - At the frontiers of safety



Heavy duty locking accessory connector

CSA640E optional rapid charger

**Intrinsically Safe** - Radios for use in the explosive environments of oil and gas installations, such as tankers or drilling platforms, or in gas-laden atmospheres encountered by the emergency services must be designed and constructed to be totally safe. Compliance with the ATEX Directive is now a legal requirement in all European Union Member States. Only portable radios type approved to the ATEX Directive are regarded as intrinsically safe in EU/EFTA countries. Note: This also applies to mobile offshore units, and seagoing vessels that weigh less than 500 gross tonnes.

**Submersible** - The unique and advanced HT900 Series conforms to all aspects of the European ATEX Directive. It further exceeds the requirements of ATEX by being completely submersible – all other radios in this class are merely splashproof. Entel believes that non-submersible radios have no place in the harsh world of maritime and terrestrial high-risk environments.

**Ergonomic** - Large rubber armoured volume control and side grips make HT900 series easy to grip with wet or gloved hands, and has indispensable high visibility displays.

**Built for hostile environments** - HT900 radios are unique in offering such a full specification. They are built without compromise to deliver superb, consistent performance in the most hostile environments encountered on land or at sea.

**Powerful** - Delivers a maximum of four watts RF power; switchable to one watt low power should you wish to conserve battery life.

**Feature Rich – Simple To Use!** - With all its technological advances the HT900 series remains very simple to use, with the majority of its features accessed by a single key depression.

**Superior Audio Quality** - Latest compander noise reduction technology delivers loud and crisp audio no matter what environment you are in.

**Battery Life Indicator** - Continually monitors battery state for your safety and convenience.

**Built In Voice Scrambler** (HT940 only) - Enabled at the press of a button, this feature ensures privacy between you and other HT940 radios used in your system. Your radio calls will be loud, crisp and clear whilst potential eavesdroppers monitoring the same channel will hear unintelligible garble.

**Lithium-Ion Battery Technology** - This very latest battery technology gives you three big advantages:

1. Huge fifteen hour duty cycle with supplied CNB940E battery pack.
2. Not prone to the dreaded memory effect that Nicad and Ni-MH battery packs suffer from, therefore no more need to fully discharge your battery pack before charging!
3. Stores a charge up to three times longer than a Nicad.

**A/B Quick Access Channels** (HT940 only) - Immediately recalls two user assigned channels, for speed and convenience.

**VOX** - Hands free operation when used with a VOX accessory.

**Scanning** - Ultra fast MEM® scan searches through memorised channels to ensure no lost calls.

**Private Channels** (HT940 only) - The HT940 has a capacity for an additional 36 private channels, which can be programmed by your dealer.

**Three Year Warranty** - The HT900 series transceivers are supported by a three year manufacturers warranty.



\*\* If your application is outside EU/EFTA countries, or the seagoing vessel/mobile offshore unit is over 500 gross tonnes, please refer to our HT800 Series UL intrinsically safe range.

# HT900 series

The HT900 Series conforms to Europe's stringent ATEX Directive for intrinsically 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 I, applying to zones I & 2.
- II For use in areas where there is some risk of detonation
- C The most hazardous gas grouping, including hydrogen and acetylene
- T3 Based on the surface temperature not exceeding 200°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.

In order to address the different applications, the following variants of HT900 Series are available:



HT940

HT920/980

Model	Land	Marine	VHF	UHF	Channels	Submersible
HT920	✓	✗	✓	✗	128 - PC programmable	✓
HT940	✗	✓	✓	✗	Pre programmed 55 channels	✓
HT980	✓	✓	✗	✓	128 - PC programmable	✓



# HT900 ATEX approved accessories



**CNB940E**



**\*CSA640E**



**\*CSB640E**



**CMP940**



**EA19/940**



**EA15/940**



**EPT40/940**



**CXR5/940**



**CXR16/940**



**CHP900/HS**



**CHP900/HD**



**CLC940**

## Accessories not pictured

- \*CST640E** Six pod battery analyser
- \*CCA230** 230 volt, trickle charger
- \*CCA12** 12 volt, trickle charger
- \*CXW640** Antenna adaptor for external aerial connection

\*These accessories must only be used outside hazardous area location

- EHP840** Covert style earpiece
- CAT20IS** Spare antenna for HT920
- CAT40IS** Spare antenna for HT940
- CAT80IS** Spare antenna for HT980

For the latest range of accessories visit [www.entel.co.uk](http://www.entel.co.uk)

\*\* Use of non Entel approved accessories will invalidate your ATEX intrinsically safe approval.

'for all conditions'



**Entel UK**

# technical specifications



General - HT940	
RF power output	4 Watts (high) 1 Watt (low)
Frequency range	156.000 to 163.275 MHz
Channels	All currently allocated International, USA and Canadian channels, with the programmable option to limit available channels
Private channels	36 (dealer programmable)
Operating voltage	7.4v DC
Temperature range	-20°C to +50°C
Current drain:	
Standby	60mA
Receive	200mA
Transmit	1500mA (high) 750mA (low)
Duty Cycle (5/5/90)	15 hours (high) / 19 hours (low)
Dimensions	130mm(h) x 59mm(w) x 33mm(d)
Weight	296g (with battery and aerial)

General - HT920 / HT980	
RF power output	4 Watts (high) 1 Watt (low)
Frequency range (UHF)	TX 425 to 470MHz RX 438 to 470Mhz
Frequency range (VHF)	TX 148 to 170MHz RX 148 to 170MHz
Channels	128
Channel spacing	25KHz (wide) 12.5KHz (narrow)
Operating Voltage	7.4v DC
Temperature range	-20°C to +50°C
Current drain:	
Standby	50mA
Receive	160mA
Transmit	1800mA (high) 1000mA (low)
Duty cycle (5/5/90)	14 hours / 18 hours (low)
Dimensions	130mm(h) x 59mm(w) x 33mm(d)
Weight	296g (with battery and aerial)

Supplied Accessories	
CNB940E	7.4v, 1800mAh Li-Ion battery
CBH640	Spring loaded belt clip
High efficiency antenna	
User manual	

\*\*Full & detailed specification available on request

## Complete HT Series application guide for land and marine models:-

Model	Land	Marine	VHF	UHF	ATEX (I.S)	U.L (I.S)	Channels	PMR446	GMDSS
HT446	✓	✗	✗	✓	✗	✗	8	✓	✗
HT640	✗	✓	✓	✗	✗	✗	55 marine	✗	✗
HT720	✓	✗	✓	✗	✗	✗	128	✗	✗
HT780	✓	✓	✗	✓	✗	✗	128	✗	✗
HT820	✓	✗	✓	✗	✗	✓	128	✗	✗
HT840	✗	✓	✓	✗	✗	✓	128	✗	✗
HT880	✓	✓	✗	✓	✗	✓	128	✗	✗
HT920	✓	✗	✓	✗	✓	✗	128	✗	✗
HT940	✗	✓	✓	✗	✓	✗	128	✗	✗
HT980	✓	✓	✗	✓	✓	✗	128	✗	✗
HT70	✗	✓	✓	✗	✗	✗	upto 55 marine	✗	✓

I.S = intrinsically safe for hazardous area applications

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