

LAND

Entel

ATEX 

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



Submersible  
Intelligent  
Tough



HT Series 2.0

# HT Series Features



Heavy duty locking accessory connector

**HT Series 2.0** - a model for every application. From entry level to sophisticated MPT1327 trunked variants, the HT Series 2.0 is built without compromise to deliver loud and crisp audio using the latest compander noise reduction technology.

**Submersible** - conforming to European rating IP68, the HT Series 2.0 offers the highest submersibility rating of any two-way portable radio. Uniquely able to withstand total immersion in water to a depth of 5 metres for 1 hour, Entel's HT Series 2.0 radios are therefore extremely resistant to corrosion, more than a match for the likely hazards encountered in any field of operation.

**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.

**Simple Or Sophisticated** - you choose. Need simple speech communications? Then our entry level PMR radios will meet all your needs. Entel's mid level radios give you all the facilities you might expect from our competitors' products, while our top of the range radio is arguably the most versatile radio you can buy.

**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 the charge cycles of your battery pack, warning you when it is nearing the end of its life. Models equipped with an LCD screen 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

**ATEX Approved IIC** - The HT900 range of ATEX certified portables meets IIC T4, the most stringent ATEX ratings as required by the 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 Approved IIA** - The HT800 range of ATEX certified portables meets 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 is suitable for those users who do not need to comply with the European ATEX standard.

## Model Selection:



Entry      Entry Selcall      Entry LCD      Advanced Signalling      Advanced Signalling Keypad

Not  
Intrinsically  
Safe

|                         |                              |         |        |        |        |
|-------------------------|------------------------------|---------|--------|--------|--------|
| Land VHF (66 - 88MHz)   | HT712                        | HT712S  | HT713  | HT715  | HT716  |
| Land VHF (136 - 174MHz) | HT722                        | HT722S  | HT723  | HT725  | HT726  |
| Land VHF (216 - 223MHz) | HT762                        | HT762S  | HT763  | HT765  | HT766  |
| Land UHF (330 - 400MHz) | HT772                        | HT772S  | HT773  | HT775  | HT776  |
| Land UHF (400 - 470MHz) | HT782                        | HT782S  | HT783  | HT785  | HT786  |
| Land UHF (450 - 520MHz) | HT782U                       | HT782SU | HT783U | HT785U | HT786U |
| Land UHF (800 - 870MHz) | HT792                        | HT792S  | HT793  | HT795  | HT796  |
| MPT1327                 | See MPT1327 Trunked Brochure |         |        |        |        |
| Marine                  | See Marine Brochure          |         |        |        |        |
| PMR446                  | See PMR446 Brochure          |         |        |        |        |

IECEx  
Intrinsically  
Safe

|                         |                              |         |        |        |        |
|-------------------------|------------------------------|---------|--------|--------|--------|
| Land VHF (66 - 88MHz)   | HT512                        | HT512S  | HT513  | HT515  | HT516  |
| Land VHF (136 - 174MHz) | HT522                        | HT522S  | HT523  | HT525  | HT526  |
| Land UHF (400 - 470MHz) | HT582                        | HT582S  | HT583  | HT585  | HT586  |
| Land UHF (450 - 520MHz) | HT582U                       | HT582SU | HT583U | HT585U | HT586U |
| MPT1327                 | See MPT1327 Trunked Brochure |         |        |        |        |
| Marine                  | See Marine Brochure          |         |        |        |        |

ATEX  
IIA  
Intrinsically  
Safe

|                         |                              |         |        |        |        |
|-------------------------|------------------------------|---------|--------|--------|--------|
| Land VHF (66 - 88MHz)   | HT812                        | HT812S  | HT813  | HT815  | HT816  |
| Land VHF (136 - 174MHz) | HT822                        | HT822S  | HT823  | HT825  | HT826  |
| Land UHF (400 - 470MHz) | HT882                        | HT882S  | HT883  | HT885  | HT886  |
| Land UHF (450 - 520MHz) | HT882U                       | HT882SU | HT883U | HT885U | HT886U |
| MPT1327                 | See MPT1327 Trunked Brochure |         |        |        |        |
| Marine                  | See Marine Brochure          |         |        |        |        |

ATEX  
IIC  
Intrinsically  
Safe

|                         |                              |         |        |        |        |
|-------------------------|------------------------------|---------|--------|--------|--------|
| Land VHF (66 - 88MHz)   | HT912                        | HT912S  | HT913  | HT915  | HT916  |
| Land VHF (136 - 174MHz) | HT922                        | HT922S  | HT923  | HT925  | HT926  |
| Land UHF (400 - 470MHz) | HT982                        | HT982S  | HT983  | HT985  | HT986  |
| Land UHF (450 - 520MHz) | HT982U                       | HT982SU | HT983U | HT985U | HT986U |
| MPT1327                 | See MPT1327 Trunked Brochure |         |        |        |        |
| Marine                  | See Marine Brochure          |         |        |        |        |
| PMR446                  | See PMR446 Brochure          |         |        |        |        |



Entry



Entry  
Selcall



Entry  
LCD



Advanced  
Signalling



Advanced  
Signalling Keypad

## General Features

|                                                                |    |    |     |     |     |
|----------------------------------------------------------------|----|----|-----|-----|-----|
| Environmental protection to IP68 (submersible - 5m for 1 hour) | ✓  | ✓  | ✓   | ✓   | ✓   |
| MIL STD 810C/D/E/F                                             | ✓  | ✓  | ✓   | ✓   | ✓   |
| 1800mAh Li-Ion battery                                         | ✓  | ✓  | ✓   | ✓   | ✓   |
| Flash upgradeable to add future features                       | ✓  | ✓  | ✓   | ✓   | ✓   |
| Robust accessory socket                                        | ✓  | ✓  | ✓   | ✓   | ✓   |
| Programmable accessory connector                               | ✗  | ✓  | ✗   | ✓   | ✓   |
| Number of channels                                             | 16 | 16 | 255 | 255 | 255 |
| LCD display                                                    | ✗  | ✗  | ✓   | ✓   | ✓   |
| Scrolling graphics                                             | ✗  | ✗  | ✗   | ✓   | ✓   |
| Channel naming                                                 | ✗  | ✗  | ✓   | ✓   | ✓   |
| Multi-function encoder control                                 | ✗  | ✗  | ✓   | ✓   | ✓   |
| Scan/priority scan                                             | ✓  | ✓  | ✓   | ✓   | ✓   |
| Voice annunciation (option)                                    | ✓  | ✓  | ✓   | ✓   | ✓   |
| Bluetooth wireless comms (option)                              | ✓  | ✓  | ✓   | ✓   | ✓   |
| Clone data from one radio to another                           | ✓  | ✗  | ✓   | ✗   | ✗   |
| Voting                                                         | ✗  | ✓  | ✗   | ✓   | ✓   |
| Display custom logo at switch on                               | ✗  | ✗  | ✓   | ✓   | ✓   |

## For - Convenience

|                                                  |      |        |      |        |               |
|--------------------------------------------------|------|--------|------|--------|---------------|
| VOX hands free                                   | ✓    | ✓      | ✓    | ✓      | ✓             |
| Programmable channel monitor button              | ✓    | ✓      | ✓    | ✓      | ✓             |
| 2/5 tone selective calling                       | ✗    | ✓      | ✗    | ✓      | ✓             |
| Open or Closed channel modes                     | ✗    | ✓      | ✗    | ✓      | ✓             |
| Call all radios at once                          | ✓    | ✓      | ✓    | ✓      | ✓             |
| Call a group or individual radios                | ✗    | ✓      | ✗    | ✓      | ✓             |
| 16 pre-programmed contacts                       | ✗    | ✓      | ✗    | ✗      | ✗             |
| 400 user contact list (just like a mobile phone) | ✗    | ✗      | ✗    | ✓      | ✓             |
| Multiple ringtones                               | ✗    | ✓      | ✗    | ✓      | ✓             |
| Battery charge count (requires LCD to display)   | ✓    | ✓      | ✓    | ✓      | ✓             |
| Battery level indicator                          | ✗    | ✗      | ✓    | ✓      | ✓             |
| Low battery warning                              | ✓    | ✓      | ✓    | ✓      | ✓             |
| Receive signal strength indicator                | ✗    | ✗      | ✓    | ✓      | ✓             |
| Talkaround                                       | ✓    | ✓      | ✓    | ✓      | ✓             |
| Intuitive menus (like a mobile phone)            | ✗    | ✗      | ✗    | ✓      | ✓             |
| Info button (user guide built in to radio)       | ✗    | ✗      | ✗    | ✓      | ✓             |
| Speed dial                                       | ✗    | ✗      | ✗    | ✓      | ✓             |
| Who's calling (caller ID)                        | ✗    | ✗      | ✗    | ✓      | ✓             |
| Missed, received & dialled numbers lists         | ✗    | ✗      | ✗    | ✓      | ✓             |
| 4 "channel shortcut" buttons                     | ✓    | ✓      | ✓    | ✓      | ✓             |
| DTMF dial mode                                   | none | stored | none | stored | stored/keypad |

## For - Security

|                                                 |        |        |        |        |        |
|-------------------------------------------------|--------|--------|--------|--------|--------|
| Stun a lost or stolen radio (& revive if found) | ✗      | ✓      | ✗      | ✓      | ✓      |
| Programmable scrambler                          | option | option | option | option | option |
| Power on password option                        | ✗      | ✗      | ✗      | ✓      | ✓      |

## For - Safety

|                                                    |      |      |      |              |              |
|----------------------------------------------------|------|------|------|--------------|--------------|
| Local Personal Attack Alarm                        | ✓    | ✓    | ✓    | ✓            | ✓            |
| Panic button with remote alert                     | ✗    | ✓    | ✗    | ✓            | ✓            |
| Emergency microphone live                          | ✗    | ✓    | ✗    | ✓            | ✓            |
| Lone Worker alarm mode                             | ✗    | ✓    | ✗    | ✓            | ✓            |
| Man Down basic (option)                            | ✗    | ✓    | ✗    | ✓            | ✓            |
| Shunting mode (for rail companies)                 | ✗    | ✓    | ✗    | ✓            | ✓            |
| Whisper mode                                       | ✗    | ✓    | ✗    | ✓            | ✓            |
| Silent alarm call mode                             | ✗    | ✓    | ✗    | ✓            | ✓            |
| Continue alarm even if switched off                | ✗    | ✓    | ✗    | ✓            | ✓            |
| Manual location information with emergency         | ✗    | ✗    | ✗    | ✓            | ✓            |
| Bluetooth fully automatic indoor location (option) | none | send | none | send/display | send/display |

## For - Text Messaging

|                 |      |      |      |              |              |
|-----------------|------|------|------|--------------|--------------|
| Status messages | none | send | none | send/display | send/display |
|-----------------|------|------|------|--------------|--------------|

'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

\*Used to charge ATEX models in a non hazardous-environment

■ Not intrinsically Safe



## Technical Specifications

### General Specifications

|                            |                                                                            |
|----------------------------|----------------------------------------------------------------------------|
| RF power output            | VHF - 5 Watts (high) / 1 Watt (low)<br>UHF - 4 Watts (high) / 1 Watt (low) |
| RF power output ATEX       | IIA 4 Watts<br>IIC 1 Watt                                                  |
| RF power output IECEx      | 4 Watts (high) / 1 Watts (low)                                             |
| Frequency range VHF Mid    | 66 to 88MHz                                                                |
| Frequency range VHF High   | 136 to 174MHz                                                              |
| Frequency range VHF        | 216 to 223 MHz                                                             |
| Frequency range UHF        | 330 to 400 MHz                                                             |
| Frequency range UHF        | 400 to 470 MHz                                                             |
| Frequency range UHF u/band | 450 to 520 MHz                                                             |
| Frequency range UHF        | 800 to 870 MHz                                                             |
| 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 antenna)                                            |
| 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

CSAHT rapid charger is included with HTxx2, HTxx2S and HTxx3

Spring loaded belt clip

High efficiency antenna

User guide CD

For a full and detailed specification see our web site [www.entel.co.uk](http://www.entel.co.uk)

Your local professional dealer

