# CRS1000 CRANE RADIO SYSTEM


## NEW OPTIONS NOW AVAILABE

This unit is designed and manufactured by CDT to meet the latest ATEX/IEC requirements for hazardous area equipment and is approved for installation and uses in Zone 1 IIB T4 areas.
Although primarily designed for cranes, making it ideal for offshore use, the unit can be utilised in any suitable approved area.

The fully configured system consists of two enclosures, control unit and main unit.

The main unit is an ExD enclosure manufactured in aluminium alloy or stainless steel.
This houses the two radios (VHF, UHF) a universal input mains power supply, interface control electronics and audio output stages, to drive external speakers, and IS barriers.
All cable entries are via 20/25mm cable glands.

The optional PA is housed in the main unit and comprises of a 25-watt loud hail amplifier, this allows the operator to make announcements to deck personnel.

The control unit consists of a polycarbonate enclosure fitted with a LCD display to indicate channel number and mode, LED indicators to indicate status and push button switches to adjust volume levels and change channels on each radio module. Large push buttons are utilised which can be easily operated even with a gloved hand.

Cable entries to the main unit and foot/hand operated PTT are via 20/25mm cable glands. Connections to a system approved headset/boom microphone or gooseneck microphone is via a 5-pin connector.

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## OPTIONS

Through continual development CDT can now offer a range of options for their CRS1000 Ex Crane Radio Systems.

1) To meet the changes to digital radio systems CDT can offer TETRA and DMR radio options.
2) Tape interfaces to allow all transmit and receive traffic to and from the crane to be monitored.
3) System can be supplied with all the international marine channels programmed in (this is also offered as an upgrade to existing systems)
4) High power PA amplifier options, higher than 25 watts.
5) The CDT Ex Crane Radio can now be offered not only to ATEX certification but also IECEX certification.

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# CRS1000 CRANE RADIO SYSTEM

**SIRA 03ATEX2404X**
**IECEx SIR 12.0112X**
**CSAE 22UKEX1282X**

CE 2813

**UK CA 0518**

**Zone 1 IIB T4**

## SPECIFICATION

### Radio Section; Freq VHF (136-174MHz, UHF 330-512MHz, 800MHz, (Radio Model and Band Dependant) TETRA & DMR radios

| | |
|---|---|
| Number of Channels | 16 per radio (Standard Configuration) 256 per radio option |
| Transmitter output | 1 Watt |
| Channel spacing | +/- 12.5/25kHz |
| Receiver Sensitivity (VHF) | 0.25uv 12dB SINAD |
| Receiver Sensitivity (UHF) | 0.3uv 12dB SINAD (conventional PMR) |
| CTCSS coding on UHF | optional |
| Audio Output | 5 Watts into External Speaker |

### PA Section (optional)

| | |
|---|---|
| Loud Hail Output | 25 watts |
| Output | 100v Line |

### Main Enclosure Details

| | |
|---|---|
| Input Supply | 86-260v AC 65 Watts or 24V DC |
| Size<br>Temperature | 432 x 332 x 229<br>-20deg to +50deg |
| Weight | 22kg Aluminium<br>97kg Stainless Steel |
| Material | Aluminium Alloy or Stainless Steel |

### Control Enclosure

| | |
|---|---|
| Size (Excluding Glands)<br>Temperature | 188x188x130<br><br>-20deg to +50deg |
| Weight | 2kg |

Supplied By:

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