DX-IS Series

Intrinsically Safe, Commercial Grade Marine Portables

- EN60945 Marine Approval
- UL913 Intrinsically Safe Certified
- DMR Digital & Analogue versions
- Submersible IP68

SGS c us

DMR
DIGITAL MOBILE RADIO ASSOCIATION

Tough
CRYSTAL
CLEAR
AUDIO
Submersible
Dependable

SUBMERSIBLE

CH 01
DIGITAL   467.525MHz

DX-IS Series

Intrinsically Safe, Commercial Grade Marine Portables

Available in either VHF or UHF, display and non-display models, the commercial grade DX-IS Series sets the benchmark for next-generation onboard intrinsically safe portables.

Standard features include both analogue and digital modes of operation, high visibility OLED display, high torque ergonomic controls designed for gloved-hand use, and industry-leading IP68 2m 4 hours submersible rating, to provide excellent reliability and usability even in the most extreme conditions.

Loud and Clear Audio

Our DX-IS portables deliver best in class, loud and intelligible audio, essential when working in high ambient noise environments.

Intrinsically Safe Approved

Approved and certified to UL913, for users who do not need to comply with the European ATEX directive.

Voice Annunciation

This programmable feature gives further assurance to the user that they've selected the correct channel allowing them to focus on the task in hand. It can also announce low battery warning and battery status.

Benefits of Digital

Aside from crystal clear intelligible audio, there is increased range and battery endurance. DX-IS also supports analogue mode ensuring backwards compatibility with any existing analogue radios on board.

Informative display on UHF model shows both the channel number and the frequency

VHF display shows the channel name and number

Easily Reprogram your radios …even at sea !

With our free, unique and simple to use PC app, you can easily re-program a DX-IS radios whilst still onboard. The user friendly app makes it easy to drag and drop a new programming file from an email to your DX-IS radio(s). This is a simple and intuitive process that can be carried out by non-technical personnel.
See video @ entel.co.uk/dx-prog

Non display model

UHF model

VHF model
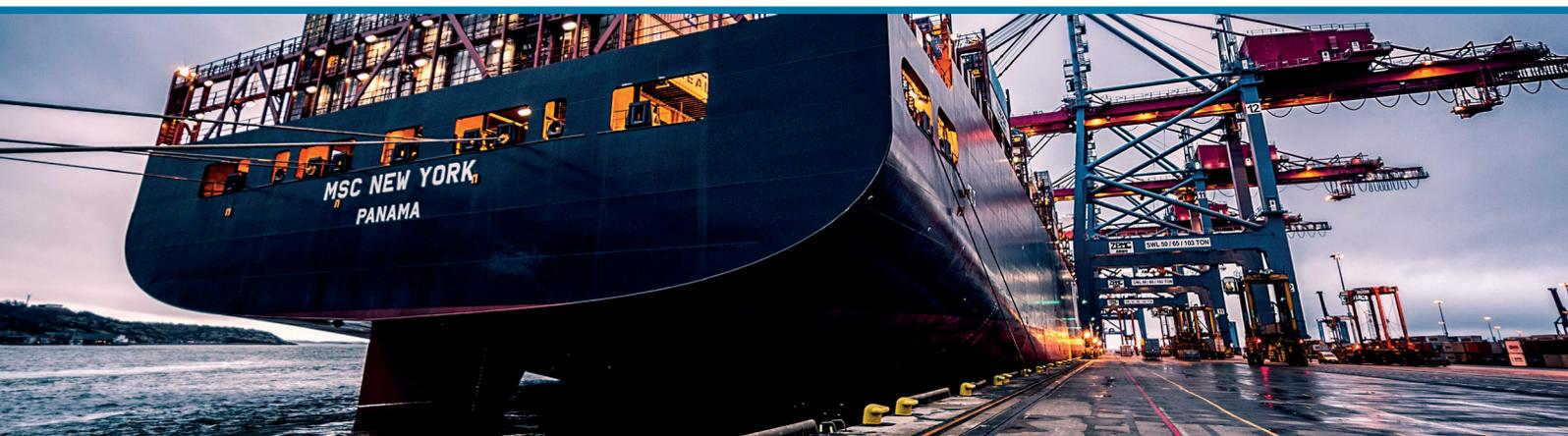
Migrate to Digital Your Way

DX-IS UHF radios support both analogue and digital technologies. Supporting both technologies ensures backwards compatibility with existing analogue radio systems and a simple migration path to the many benefits of digital communications.

Intelligent Batteries

Entel's intelligent Lithium-Ion batteries are designed to deliver optimum performance and safety. In digital mode the DX-IS radio has a market leading duty cycle of 24 hours from a single charge.

Versatile Range of Accessories

From headsets to speaker microphones and advanced bone conduction technology, Entel offer a complete portfolio of accessories to ensure you stay connected.

Commercial Marine Grade Construction

EN60945 Compliant

Meets essential maritime environmental standards

Precise Control

High torque volume and channel controls give clear feedback and control

Corrosion Protection

Battery terminals use galvanic corrosion protection to ensure optimun efficiency

Positive Feedback Controls

Ultra tactile buttons that give positive feedback, even with a gloved hand

IP68 rated

Submersible for 4 hours to a depth of 2 metres, critical for marine usage

Locking accessory connector

All DX-IS accessories incorporate a robust locking connector to further safeguard the user

Built to Last

Saltwater anti corrosion coating on chassis, designed for the maritime environment

Gold Plated Contacts

To ensure reliable operation in the harsh maritime environment

Model List - VHF

Model (non EU market only)	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DX542-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	VHF	Non	Analogue	1 & 5 watts
DX544-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	VHF	Display	Analogue	1 & 5 watts

Model List - UHF

Model (non EU market only)	Gas Group	Frequency	Display / Non display	Analogue / Digital	RF power
DX582M-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	UHF	Non	Analogue & Digital	1 & 4 watts
DX585M-IS	Class I,II,III, Division 1, Group C-G, Class I, Division 2, Groups A-D. T3	UHF	Display	Analogue & Digital	1 & 4 watts

Key Features

- ✓ Commercial grade construction
- ✓ IP68 submersible
- ✓ Digital and analogue modes
- ✓ Outstanding range and performance
- ✓ Crystal clear audio
- ✓ High contrast white on black OLED
- ✓ Simple on-board reprogramming app
- ✓ Extensive range of approved accessories
- ✓ Audio accessory optimisation

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Technical Specification

General

General		
Frequency Range	VHF	156 to 163.275MHz
	UHF	450-470MHz
Channel Spacing	12.5KHz & 25KHz	
Operating Voltage	7.6v	
Battery	CNB450E-IS 2200mAh Lithium-Ion	
Weight	Display model 269g	
	Non display model 259g	
Overall Dimensions (HxWxD)	97mm x 59.5mm x 37mm (with CNB450E-IS)	
Channels	VHF	INT/USA/CAN mode plus private
	UHF	up to 99
Channels non display version		up to 16

Battery Endurance (5/5/90)	Model	Analogue mode	Digital mode
	DX542/DX544	18 hours	n/a
	DX582/DX585	18 hours	24 hours

Transmitter

Transmitter	
Output Power UHF	1 & 4 watts
Output Power VHF	1 & 5 watts

Environmental

Environmental	
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	
Humidity	
Shock & Vibration	MIL-STD810 C/D/E/F/G
Packing Test	
Drop Test	
Water Ingress	IP68 2 metres, 4 hours submersible

For sale to outside of Europe and for foreign flag vessels.

Intrinsically Safe Certified to UL913 by SGS:
- ANSI/UL913 5th Ed
- Class I,II,III, Division 1, Groups C-G, T3
- Class I, Division 2, Groups A-D

UL913	**Atmosphere**	Class I II III	Class I – Gas, vapors; Class II – Dust; Class III – Fibers, Flyings	
	Area Classification (Flammable material present time)	DIV I	Division 1: Gas/Dust normally present in explosive amounts	
	Gas Types by Group:	Group C	C – Ethylene and related products	
	Dust Types by Group:	Group G	G – Grain and non-metallic dust	
	Operating Temperature	-30 to 55	-22°F to 131°F	
	Temperature Class (Maximum device surface temperature)	T3	200°C	

Accessories

Supplied package includes: Li-Ion battery pack, rapid drop-in charger, belt clip, high-efficiency antenna and quick-start user guide.

CSBHX
Intelligent six-pod rapid charger

CMP/DXS-IS
– simple version
CMP/DXE-IS
– with earpiece socket
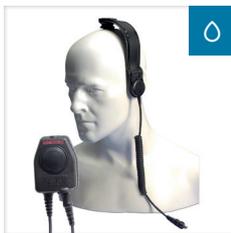Heavy duty speaker microphone

CLCDX2 – non display
CLCDX5 – display
A heavy duty leather carry case with swivel belt loop and strap

CHP450HS/DX*
Single sided ear defender headset for hard hat use

CHP450D/DX*
Double sided ear defender headset with headband

CXR5/DX*
Bone conductive skull mic with heavy duty PTT

CXR16/DX*
Throat mic / earpiece with heavy duty PTT

Submersible products are represented with a water droplet.

For the complete range of accessories please visit our website. All specifications are subject to change without notice.

* Submersible - PTT only

Full list of accessories available online.

Contact

For more information about our products, please contact us:
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