

MARINE TELEPHONE SYSTEM

Auto Telephone Exchanger



HX-120



HX-72



HX-26

Automatic Telephone Exchange System is designed with high reliable technology and mounted with IAPX8088 microprocessor CPU, stored program for system control, space division matrix for switch control, dial tone multi frequency system, protecting function from lightning and call quality stabilizing circuit. The system is also specially made to keep a good performance under the harsh environment of vessel at sea.

Type Approval by DNV GL for HX-120 and HX-72

Type Approval by RINA for HX-120 and HX-72

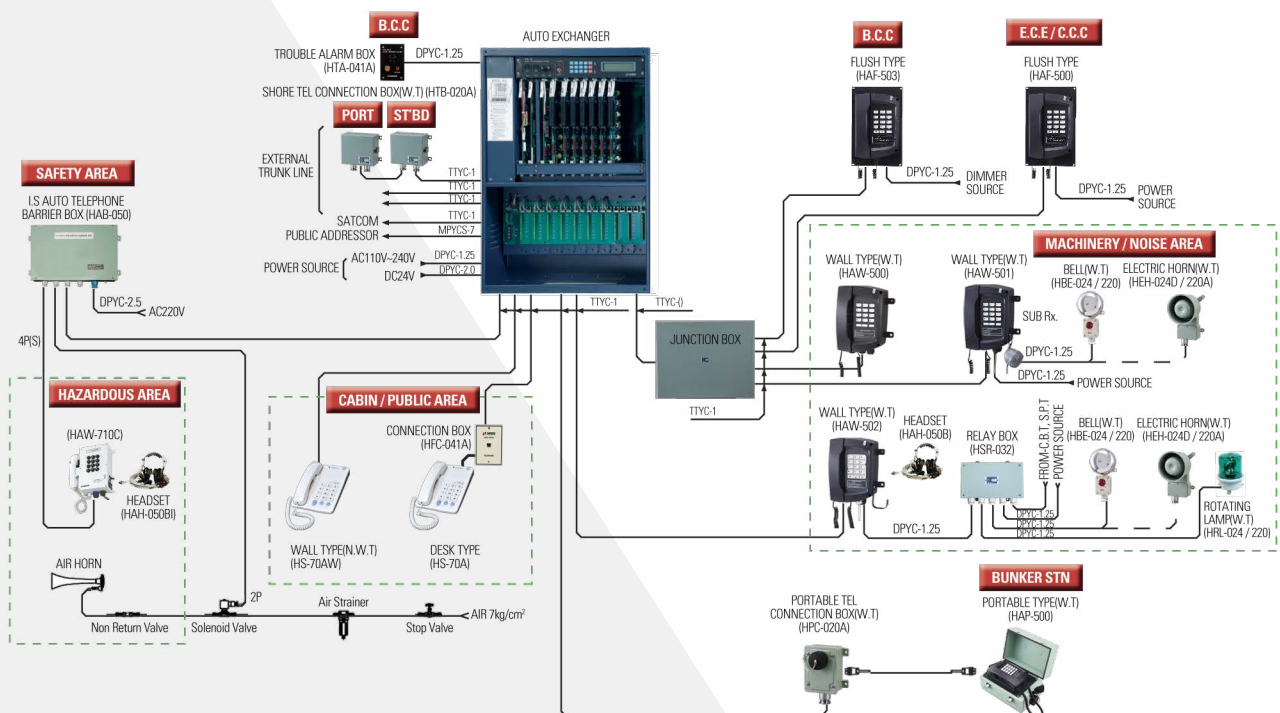
CE mark(EMC) by DNV GL for HX-26



| System Diagram |

| System Feature |

- Flexible choice of line capacity
- High reliability microprocessor control
- Simple installation and easy maintenance
- Conversion of pulse/tone
- Automatic main/em'cy power changeover
- Add on VoIP Gateway (max. 60 lines) : option



MARINE TELEPHONE SYSTEM

I.S Auto Telephone

I.S Auto Telephone System is for inter-communication where installed in hazardous or flammable area in consideration of the special environment of vessel at sea.





This telephone system is also specially designed and manufactured to comply with intrinsically safety construction standard of IEC 60079-0 / 60079-11 and Ex ia IIC T6 protection type.



It had been tested and inspected by the KIMM(Korea Institute of Machinery & Materials) under the authority vested by Republic of Korea.

| System Feature |

- Voice open voltage : max. 21V
- Voice short current : max. 46mA
- Hook/Call SW short current: max. 10mA
- Transmitter/ Receiver level: adjustable
- Operating environment: 40°C<Ta<+60°C, 5%-95%

I.S Telephone Certificate by KIMM and CE mark(EMC) by DNV GL

MODEL	HAW-710A	HAW-710B	HAW-710C	HAP-910
I.S TELEPHONE				
MOUNTING TYPE	WALL	WALL	WALL	PORTABLE
TYPE	STANDARD	SUB RECEIVER	HEADSET	STANDARD
IP GRADE	IP56	IP56	IP56	IP56
DIMENSION (WxDxH mm)	241 x 106 x 308	241 x 106 x 308	241 x 106 x 308	326 x 180 x 188
MATERIAL	PC	PC	PC	STEEL

MODEL	HET-700	HET-700S
Ex. TELEPHONE		
MOUNTING TYPE	WALL	WALL
Ex. TYPE	Ex d ia IIC T6	Ex d ia IIC T6
IP GRADE	IP56	IP56
DIMENSION (WxDxH mm)	375 x 150 x 355	375 x 150 x 355
MATERIAL	CAST AL & CAST BRASS	CAST AL & CAST BRASS



I.S Auto Telephone Barrier Box

- Power supply : AC110/220V, DC24V
- Hook/Call SW zener voltage : 28V
- Hook/Call SW short current : max. 10mA
- Voice signal zener voltage : 28V
- Voice signal short current : max. 46mA
- External alarm : 3 ports

MARINE TELEPHONE SYSTEM

I.S Common Battery Telephone (IS CBT-16)

LOUD&CLEAR

I.S CBT System is for inter-communication where installed in hazardous or flammable area in consideration of the special environment of vessel at sea. This telephone system is also specially designed and manufactured to comply with intrinsically safety construction standard of IEC 60079-0 / 60079-11 and Ex ia IIC T6 protection type.

It had been tested and inspected by the KIMM(Korea Institute of Machinery & Materials) under the authority vested by Republic of Korea.

Acquired I.S Telephone Certificate by KIMM and CE mark(EMC) by DNV GL

| System Feature |

- Voice open voltage : max.13.1V
- Voice short current : max.46mA
- Hook/Call SW short current : max.10mA
- Transmitter/Receiver level : adjustable
- Operating environment : 40℃<Ta<+60℃, 5%-95%

MODEL	HCW-701A3	HCW-701B3	HCW-701C3	HCF-801A3	HCF-801D3	HCP-901A3
SAFETY TELEPHONE						
MOUNTING TYPE	WALL	WALL	WALL	FLUSH	FLUSH	PORTABLE
TYPE	STANDARD	SUB RECEIVER	HEADSET	STANDARD	DIMMER	STANDARD
IP GRADE	IP56	IP56	IP56	IP22	IP22	IP56
DIMENSION (WxDxH mm)	241 x 99 x 308	241 x 99 x 308	241 x 99 x 308	220 x 152 x 275	220 x 152 x 275	325 x 180 x 198
MATERIAL	PC	PC	PC	STEEL	STEEL	STEEL

MODEL	HCW-710A	HCW-710B	HCW-710C	HCF-810	HCP-910
HAZARDOUS TELEPHONE					
MOUNTING TYPE	WALL	WALL	WALL	FLUSH	PORTABLE
TYPE	STANDARD	SUB RECEIVER	HEADSET	STANDARD	STANDARD
IP GRADE	IP56	IP56	IP56	IP22	IP56
DIMENSION (WxDxH mm)	241 x 99 x 308	241 x 99 x 308	241 x 99 x 308	220 x 152 x 275	365 x 240 x 188
MATERIAL	PC	PC	PC	STEEL	STEEL



I.S CBT Barrier Box

- Capacity : max.16 lines
- Power supply : AC110/220V, DC24V
- Hook/Call SW zener voltage : 13.1V
- Hook/Call SW short current : max.10mA
- Voice signal zener voltage : 13.1V
- Voice signal short current : max. 46mA
- External alarm : 2 ports

MARINE TELEPHONE SYSTEM

I.S Sound Powered Telephone (IS SPT-16)






I.S SPT System is for inter-communication where installed in hazardous or flammable area in consideration of the special environment of vessel at sea. This telephone system is also specially designed and manufactured to comply with intrinsically safety construction standard of IEC 60079-0 / 60079-11 and Ex ia IIC T6 protection type.





It had been tested and inspected by the KIMM(Korea Institute of Machinery & Materials) under the authority vested by Republic of Korea.

| System Feature |

- Voice open voltage : max. 20V
- Voice short current: max. 50mA
- Hook/Call SW short current: max. 10mA
- Transmitter/Receiver level: adjustable
- Operating environment: 40°C<Ta<+60°C, 5%-95%

I.S Telephone Certificate by KIMM and CE mark(EMC) by DNV GL

MODEL	HSW-730A	HSW-730B	HSW-730C	HSF-830	HSP-930
HAZADOUS TELEPHONE					
MOUNTING TYPE	WALL	WALL	WALL	FLUSH	PORTABLE
TYPE	STANDARD	SUB RECEIVER	HEADSET	STANDARD	STANDARD
IP GRADE	IP44	IP44	IP44	IP33	IP56
DIMENSION (WxDxH mm)	241 x 99 x 532	241 x 99 x 532	283 x 99 x 532	220 x 151 x 350	365 x 240 x 188
MATERIAL	PC	PC	PC	STEEL	STEEL

MODEL	HSD-640	HSW-740A	HSW-740B	HSW-740C	HSF-840A	HSF-840D	HSP-940
SAFELY TELEPHONE							
MOUNTING TYPE	DESK	WALL	WALL	WALL	FLUSH	FLUSH	PORTABLE
TYPE	STANDARD	STANDARD	SUB RECEIVER	HEADSET	STANDARD	DIMMER	STANDARD
IP GRADE	IP22	IP44	IP44	IP44	IP22	IP22	IP56
DIMENSION (WxDxH mm)	215 x 220 x 120	200 x 153 x 307	200 x 153 x 307	234 x 153 x 307	160 x 165 x 280	160 x 150 x 280	325 x 180 x 198
MATERIAL	ABS	ABS	ABS	ABS	ABS	ABS	STEEL





I.S SPT Barrier Box





- Capacity : max. 16 lines
- Power supply : AC110/220V, DC24V
- Hook/Call SW zener voltage : 24V
- Hook/Call SW short current : max. 10mA
- Voice signal zener voltage : 5.1V
- Voice signal short current : max. 50mA
- External alarm : 8 or 16 ports







MARINE TELEPHONE SYSTEM



ACCESSORIES

LOUD&CLEAR

MODEL	HJB-511AF / CF	HJB-512AF / CF	HJB-524CF	HJB-511AW / CW	HJB-512AW / CW	HJB-524CW
CONNECTION BOX						
MOUNTING TYPE	FLUSH			WALL		
IP GRADE	IP23			IP23 / IP44		
DIMENSION (WxDxH mm)	475 x 82 x 320 / 280 x 80 x 230 / 850 x 160 x 645			460 x 82 x 350 / 265 x 80 x 228 / 850 x 160 x 683		
MATERIAL	STEEL			STEEL		


MODEL	HFC-041A	HWC-031A	HPC-020A	HTB-020A
CONNECTION BOX				
MOUNTING TYPE	FLUSH	WALL	WALL	WALL
IP GRADE	IP20	IP20	IP56	IP56
DIMENSION (WxDxH mm)	80 x 54 x 120	80 x 54 x 120	155 x 112 x 190	210 x 88 x 189
MATERIAL	ABS	ABS	POLYESTER	STEEL


MODEL	HWC-030C	HFC-040C	HPC-020C	HPC-050B	HPC-050BI	HPC-050D
CONNECTION BOX						
MOUNTING TYPE	WALL	FLUSH	WALL	WALL	WALL	WALL
IP GRADE	IP20	IP20	IP56	IP56	IP56	IP56
DIMENSION (WxDxH mm)	80 x 54 x 120	80 x 54 x 120	155 x 112 x 190	155 x 112 x 190	155 x 112 x 190	155 x 116 x 198
MATERIAL	ABS	ABS	UNSATURATED POLYESTER	UNSATURATED POLYESTER	UNSATURATED POLYESTER	UNSATURATED POLYESTER


MODEL	HWC-033C	HWC-035S	HWC-134S	HFC-045C	HFC-047S	HFC-146S	MODEL	HSR-032
CONNECTION BOX								
MOUNTING TYPE	WALL			FLUSH			MOUNTING TYPE	WALL
IP GRADE	IP20			IP20			IP GRADE	IP44
DIMENSION (WxDxH mm)	80 x 50 x 140			80 x 50 x 140			DIMENSION (WxDxH mm)	284 x 84 x 200
MATERIAL	STEEL			STEEL			MATERIAL	ABS


MARINE TELEPHONE SYSTEM



ACCESSORIES

MODEL	HRL-024D	HRL-220A
ROTATING LAMP (W.T)		
MOUNTING TYPE	WALL	WALL
POWER	DC24V	AC220V
IP GRADE	IP56	IP56
DIMENSION (WxDxH mm)	154 x 183 x 197	155 x 183 x 197
MATERIAL	PC, ALUMINUM	PC, ALUMINUM



MODEL	HEH-220A	HEH-024D
ELECTRIC HORN (W.T)		
MOUNTING TYPE	WALL	
OUTPUT	max. 20W	
SPEAKER LEVEL	max. 110 ~ 115dB	
IP GRADE	IP56	
DIMENSION (WxDxH mm)	168 x 148 x 296	
MATERIAL	POLYETHYLENE	


MODEL	HAH-050B	HAH-050BI	HEADSET STORAGE BOX
HEADSET			
MOUNTING TYPE	-	-	WALL
IP GRADE	IP30	IP30	IP66
DIMENSION (WxDxH mm)	160 x 310	160 x 327	340 x 188 x 342
MATERIAL	ABS	ABS	ABS

MODEL	HEF-020
Ex. BELL (W.T)	
MOUNTING TYPE	WALL
SOUND LEVEL	100~102dB
TYPE OF PROTECTION	Ex d IIC T6
IP GRADE	IP66
DIMENSION (WxDxH mm)	200 x 132 x 239
MATERIAL	ALUMINUM, STEEL

MODEL	HTA-041A	HTA-030A
TROUBLE ALARM (N.W.T)		
MOUNTING TYPE	FLUSH	WALL
IP GRADE	IP20	IP20
DIMENSION (WxDxH mm)	80 x 70 x 120	80 x 69 x 120
MATERIAL	STEEL	ABS

MODEL	HEE-020
Ex. ELECTRIC HORN (W.T)	
Ex. TYPE	Ex d IIC T6
IP GRADE	IP56
DIMENSION (WxDxH mm)	158 x 240 x 224
MATERIAL	ALUMINUM

MODEL	HBE-024A	HBE-220A	HBE-024B	HBE-220B
BELL (W.T)				
MOUNTING TYPE	WALL	WALL	WALL	WALL
OUTPUT	DC24V	AV220V	DC24V	AV220V
SOUND LEVEL	105dB	108dB	103dB	105dB
IP GRADE	IP65	IP65	IP65	IP65
DIMENSION (WxDxH mm)	200 x 132 x 336	200 x 132 x 336	136 x 132 x 274	136 x 132 x 274
MATERIAL	ABS, STEEL	ABS, STEEL	ABS, STEEL	ABS, STEEL

MODEL	HCC-162	HSC-165
HAZADOUS PORTABLE TEL CONNECTION BOX (W.T)		
MOUNTING TYPE	WALL	
IP GRADE	IP56	
DIMENSION (WxDxH mm)	152 x 107 x 184	282 x 125 x 215
MATERIAL	BMC	