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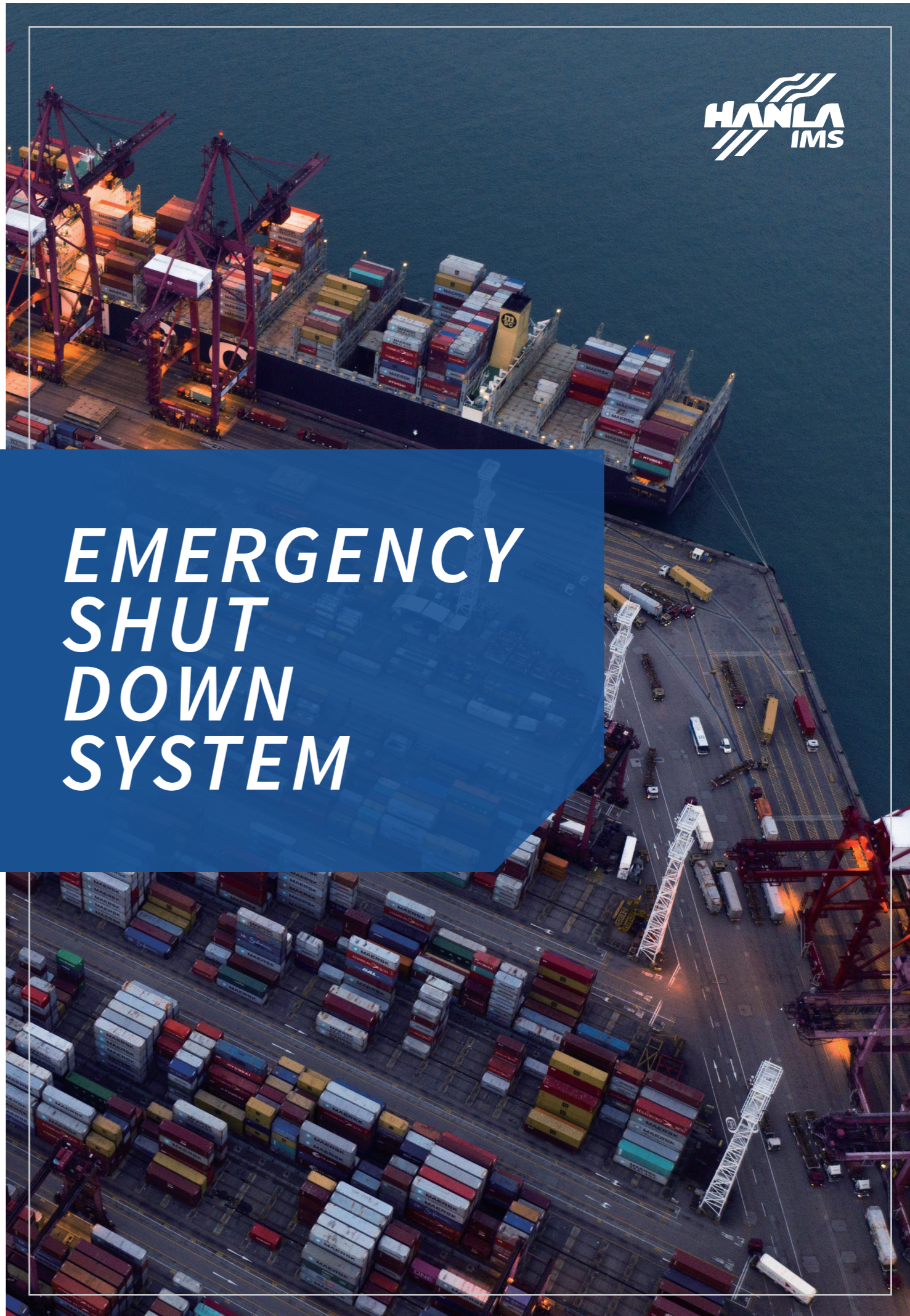
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SYSTEM DESCRIPTION

The ESD is critical to the transfer of hazardous liquids in a marine environment. In order to link the emergency shutdown systems of both the discharger and the receiver of the cargo, to enable controlled and mutual shutdown in emergency situations.

- Application : Ship to Ship, Ship to Shore
- Meets for current OCIMF, SIGTTO GMF guidelines
- Suitable use hazardous area
- Link method : Electric or Pneumatic link.
- Customized system

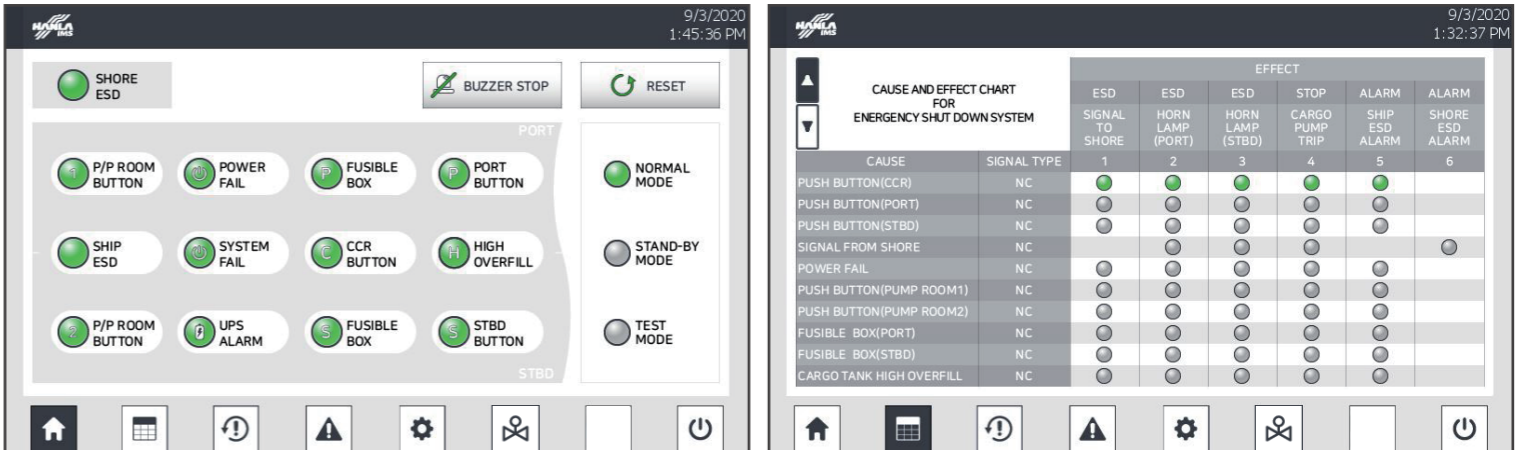
No.	Equipment	Description	
1	Main control panel / Operation panel	Manual push button , Alarm (Lamp, Buzzer), Test button, Status	HMI Display
2	Horn & Lamp	Audible / Visible alarm for emergency shutdown	Ex d type
3	Fusible box	Fire detection	Operating temp. : 98°C~105°C
4	Manual push button	Manual emergency stop button	Pump room, Manifold, Wheel house, ETC
5	Junction box	Connect ESD system of both ship and shore.	Manual push button
6	Pendant	Portable device (standard 30M)	50M
7	Wireless box	Wireless link selection	5-Pin twist connector
8	Pneumatic link	Manual emergency stop valve , Pneumatic type fusible plug	Male / Female connector, ETC
9	Air control	Pressure monitoring, Pneumatic link control	Pressure transmitter, Air filter, ETC

SPECIFICATION

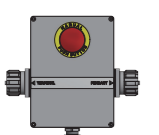
Power supply	Main : AC220 , 60Hz UPS & Battery : DC24V, 1.3AH
Input signal	Manual push button, Fusible plug, ESD signal from shore(wireless,electric,pneumatic), Overfill alarm, Pneumatic low pressure, ETC
Output signal	Cargo pump trip, ESD signal to shore, Audible alarm, Visible alarm, Power fail alarm, System fail alarm, ETC

MONITORING

- Shore ESD Alarm
- Ship ESD Alarm
- Mode selection
- Actually output
- ESD Alarm history

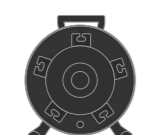


OPTION



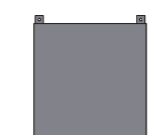
4 + 5
Junction box with Push button

OPTION



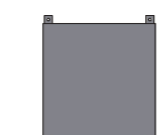
6
Pendant Reel or Box

OPTION



8
Pneumatic link

OPTION



9
Air control

