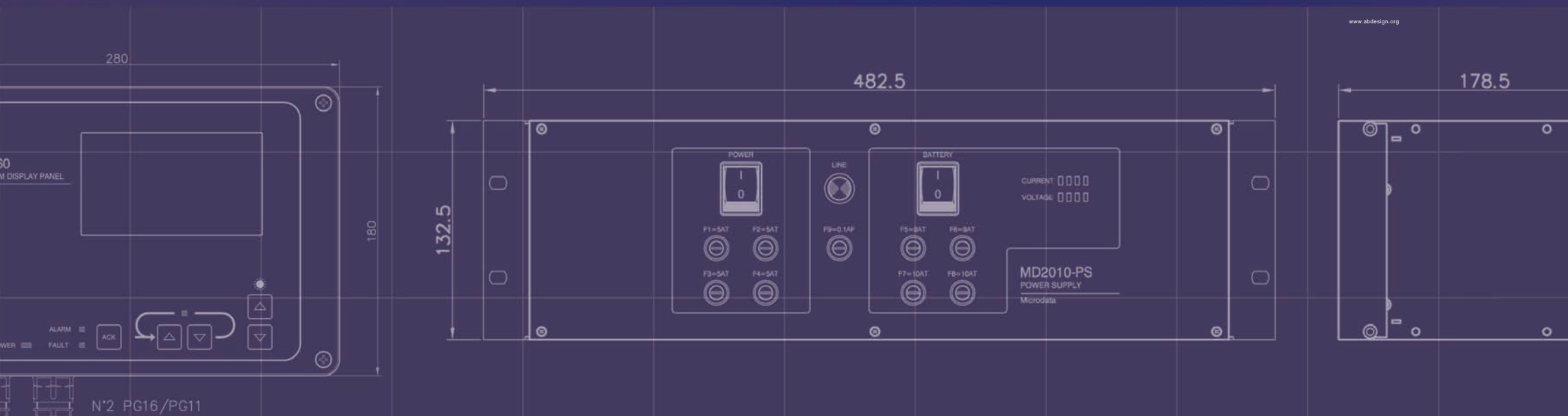


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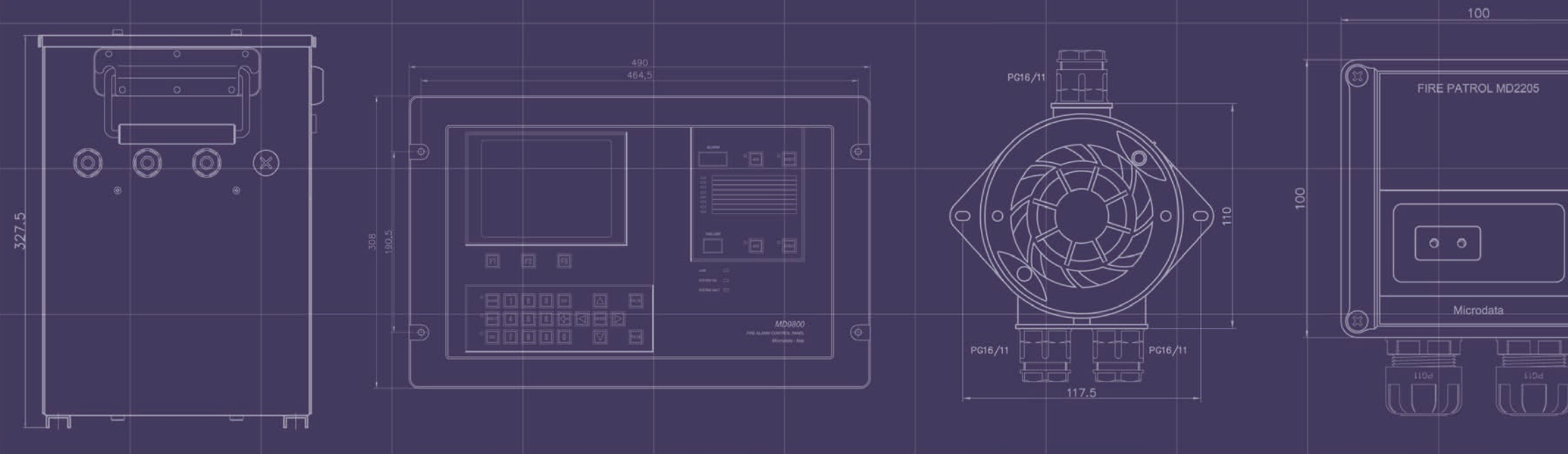
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MD MICRODATA DUE



Cruise ships

The Fire Detection System (FDS) supplied by Microdata provides a complete solution for many projects.

Since SOLAS has defined the "Safe Return to Port" regulation, the concept of Fire Detection System on large vessels, as well as all the safety systems onboard have changed and Microdata has proudly been one of the first companies to market a Fire Detection System fully complying with the new rules, thus obtaining great appreciation of the market.

The FDS is certified by the main classification societies (RINA, DNV, LR, GL, etc..) and MED certification and it is updated according to the last IMO rules in terms of safety.

According to the new requirements, the FDS system for large Cruise Ship foresees that two Central units control the devices present in each Fire Zone.

This gives the system the property to maintain its functionality even in case one Control Unit is out of order.

All of the Central Units, connected by a fiber optic network, share all the information in real time thus providing a fast and reliable system that can be controlled from any Control Unit in the ship.

FDS is fully integrated with SMCS (Safety Management and Control System), giving the operators complete control of the System.

The main components of FDS are:

- Fire Alarm Control Unit (CU)
- Up to 20 CU can be installed to control a total of 36.000 devices (detectors, manual call points, check points...)
- Alarm Repeater
- Uninterruptible Power Supply (UPS)
- Addressable Smoke Detector
- Addressable combined Smoke/Heat Detector
- IR Tri Spectrum Addressable Flame Detector
- IP42, IP66 Addressable Manual Call Points
- Explosion Proof Addressable combined Smoke and Heat Detector
- Fire Patrol Check Point + Remote IR command
- Addressable I/O modules
- Timer Unit (for manually isolation of devices)

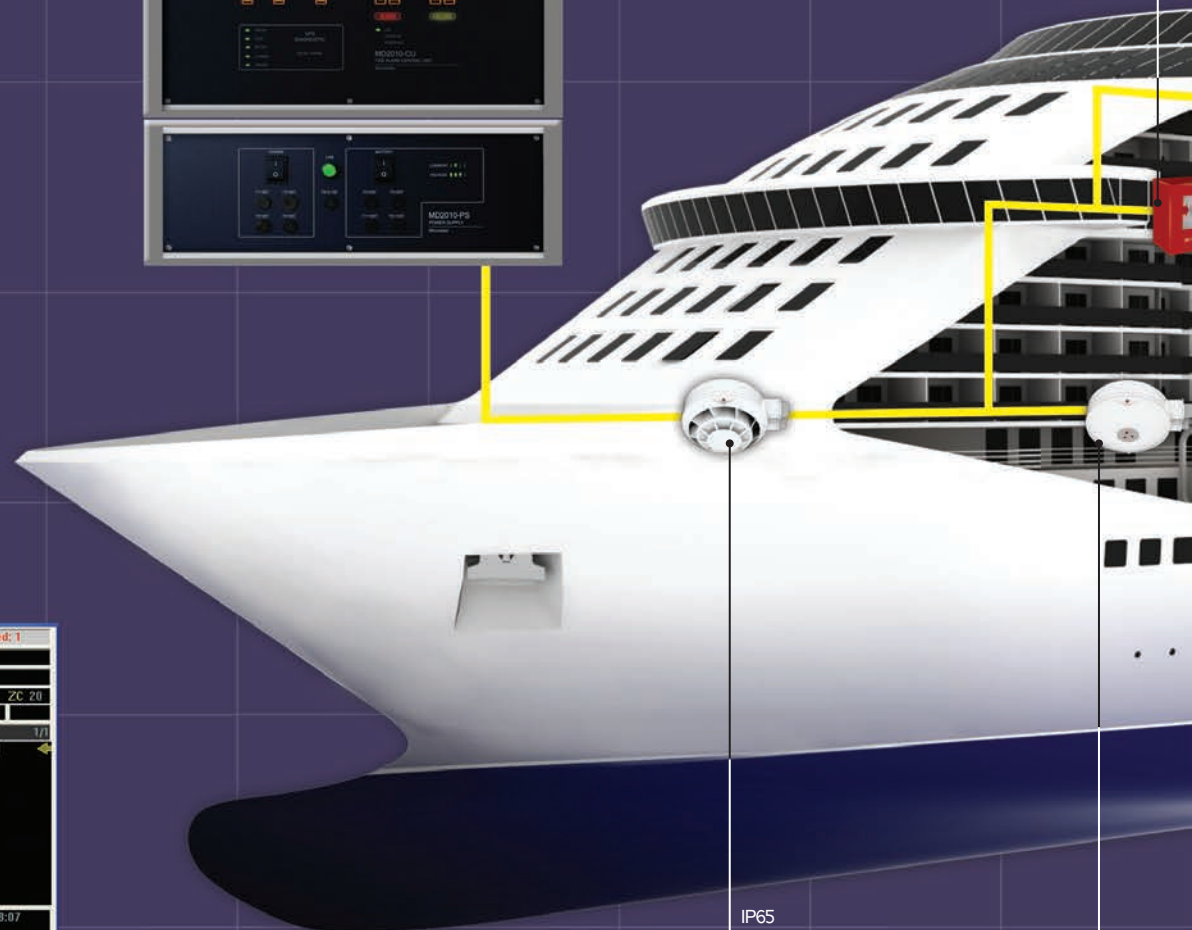
Alarm: 1	Faults: 0	System: 0	Isolated: 1
Last Alarm	Smoke Det. 009-032.0 Z2DK1 S CORR BY PAX 1421		
Last Fault			
Mode Manual	Sort Time	Time 07/24/2012 11:47:16	ZC 20
Filter Alarm & Fault			
State	Type	Address	Description
Fire	Smoke Det.	009-032.0	Z2DK1 S CORR BY PAX 1421
Detail	Type MD9900 Smoke Detector (Comb.)	Time 07/24/2012 12:48:07	
Branch 09	ZC 1/3	BCU 8/18	Anomalies N
Zone Z2DK1	Deck 1	Fz 02	
°C	27.7	°C/Min	0.0
Smoke	180		
Item Filter	Diag/Log	Legend	

SCREEN OF THE FIRE ALARM CONTROL PANEL

FIRE ALARM CONTROL PANEL WITH UPS POWER SUPPLY

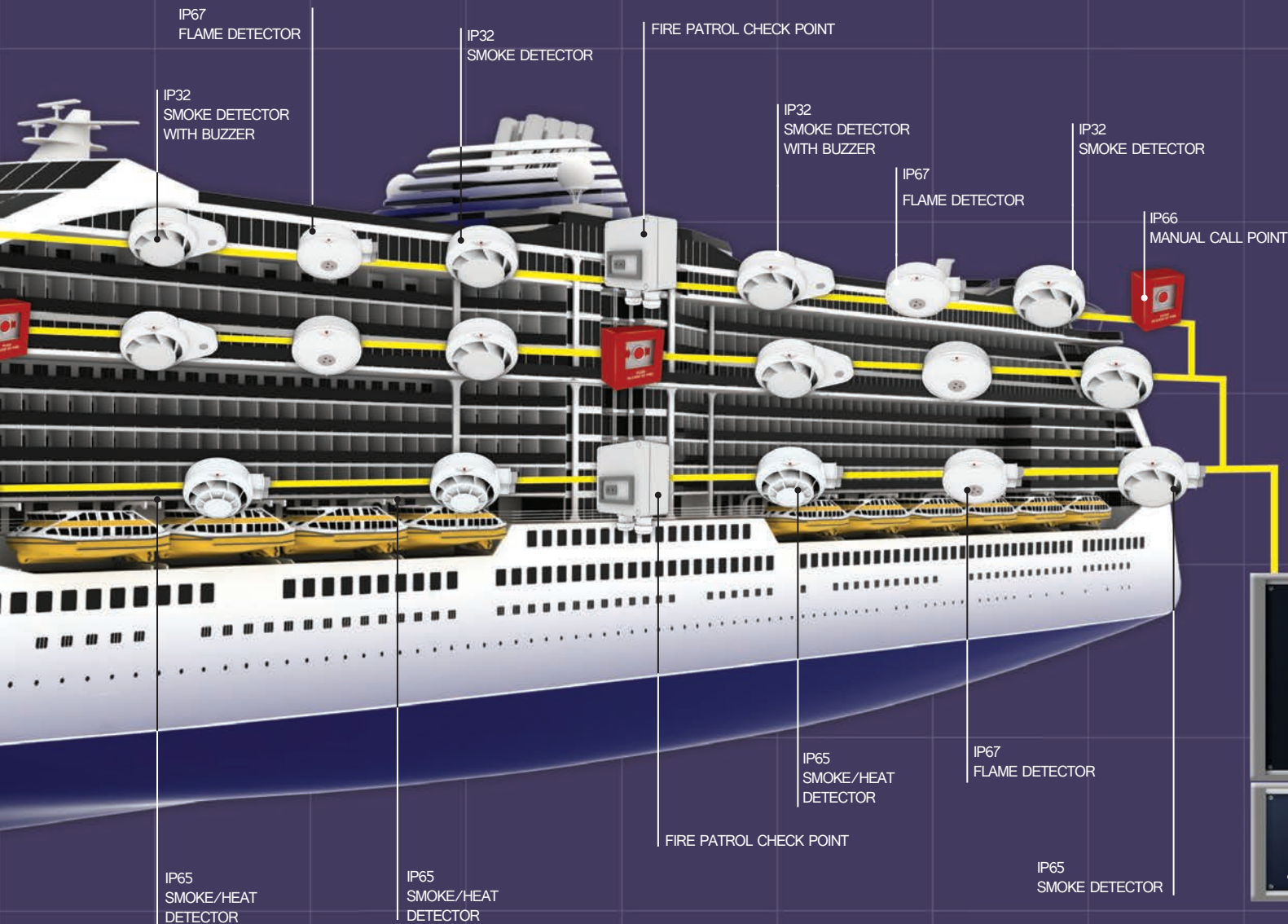


IP42 MANUAL CALL POINT



IP65 SMOKE/HEAT DETECTOR ATEX

IP67 FLAME DETECTOR



Our references:

Cruise Lines:

- Carnival Cruise Line
- Aida Cruises
- Seabourn Cruise Line
- Silversea Cruises
- Princess Cruises
- Cunard Line
- P&O Cruises

Yards:

- Fincantieri CNI Spa - Italy
- Mitsubishi Heavy Industries - Japan
- T.Mariotti - Italy
- Meyer Werft - Germany
- STX France



FIRE ALARM CONTROL PANEL WITH
UPS POWER SUPPLY

SRtP - SAFE RETURN TO PORT CONFIGURATION

FDS FOR CRUISE SHIPS AND PASSENGERS TRANSPORT

Military ships

In the Navy segment, which comprises Aircraft carriers, Patrol vessels, Frigates, Destroyers, L.P.D. vessels, Submarines and so on, the requirements for the applications are much more demanding compared with the merchant marine.

The high standard is our main rule and our products are designed and feasible for both combat and auxiliary vessels, all assemblies are project certified and made in accordance to highest quality standards and they are regularly tested to military standards to comply with the MIL 901 S

Microdata Due has installed its Fire detection systems on the following military vessels.

ITALIAN Navy:

- Aircraft carrier: Cavour, Garibaldi
- Submarine: U-212A
- Frigate: Fremm class, Maestrale class
- Destroyer: Horizon class, Durand de la Penne class
- Corvette: Minerva class
- LPD vessel: San Giusto class
- Minehunter: Gaeta class
- Tanker: Etna and Stromboli class

INDIAN Navy:

- Tanker: Deepak class
- NIOT research vessel

UAE Navy:

- Patrol vessel: Falaj class
- Frigate: Abu Dhabi class

IRAQI Navy:

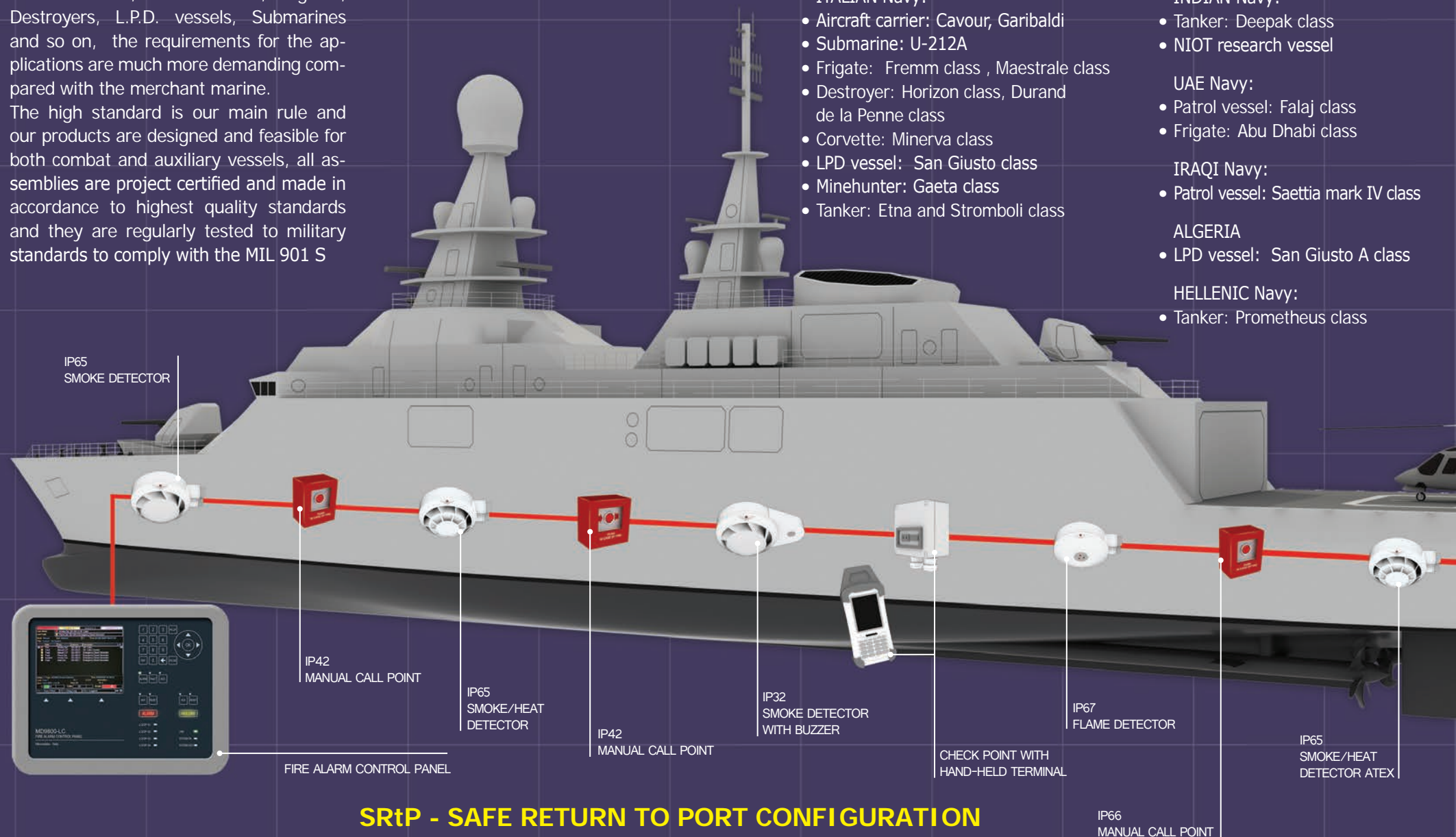
- Patrol vessel: Saettia mark IV class

ALGERIA

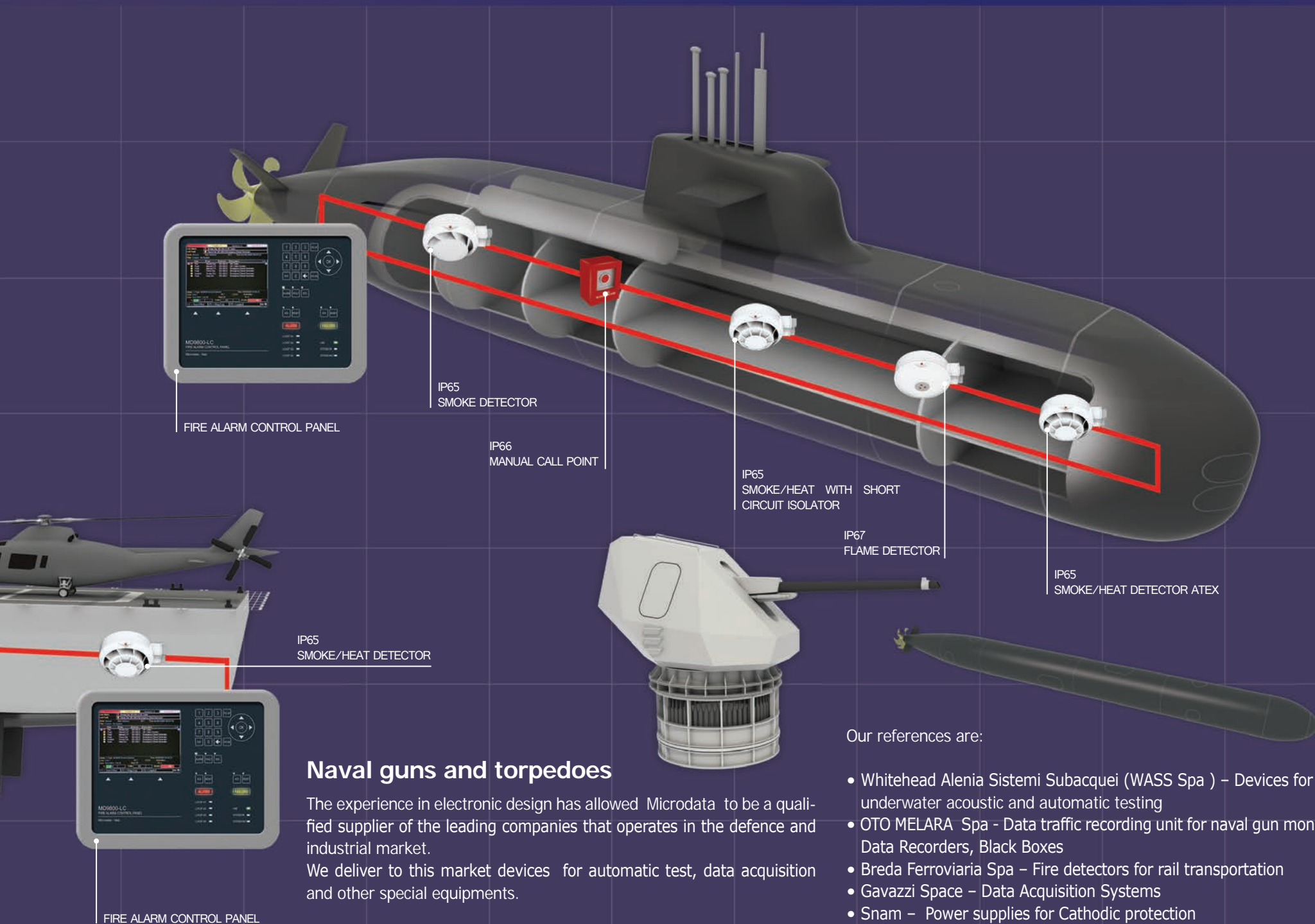
- LPD vessel: San Giusto A class

HELLENIC Navy:

- Tanker: Prometheus class



SRtP - SAFE RETURN TO PORT CONFIGURATION



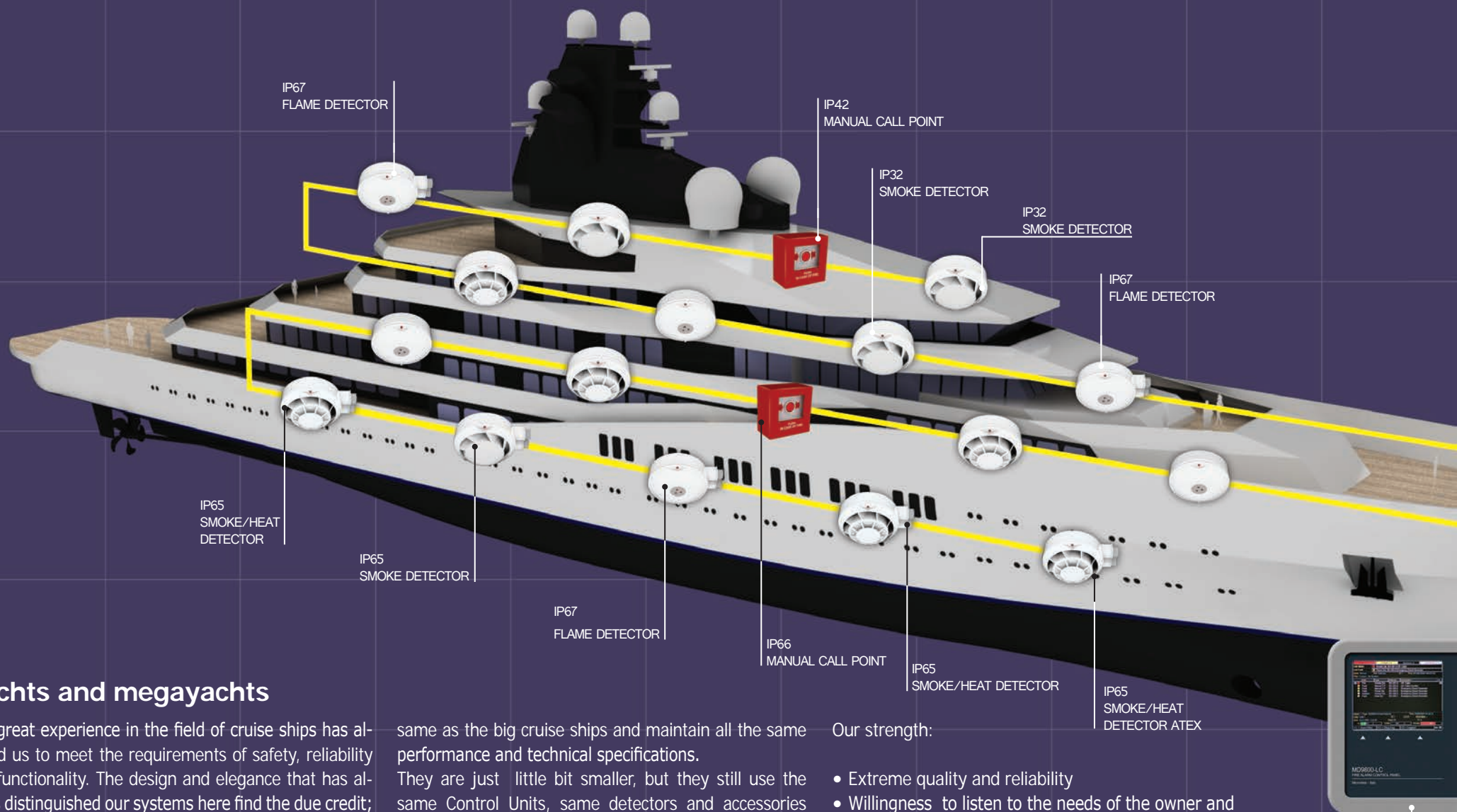
Yachts and megayachts

The great experience in the field of cruise ships has allowed us to meet the requirements of safety, reliability and functionality. The design and elegance that has always distinguished our systems here find the due credit; just as an example, we can customize the appearance of our detectors according to the wills of the owner and thus improve their integration in the furniture. One of the most prestigious brand like Perini Navi has already adopted our systems for their exclusive sail yachts. No discounts on safety and reliability! The fire detection systems we propose for this market segment are the

same as the big cruise ships and maintain all the same performance and technical specifications. They are just little bit smaller, but they still use the same Control Units, same detectors and accessories complying the strict military regulations, same interface with fire suppression systems, fire and watertight doors, supervision system, same capability to be integrated with the automation system. What a better guarantee is that to assign the safety of your guests and assets to a system designed to protect thousands of travelers?

Our strength:

- Extreme quality and reliability
- Willingness to listen to the needs of the owner and the yard and find the best technical solutions with them
- Customization for the best integration in furniture



FIRE ALARM CONTROL PANEL

Microdata Due

Microdata Due S.r.l. is a company with over 35 years of experience in the field of design and construction of fire detection systems (FDS) and electronic equipments. We have always focused our activities mainly in the market segments where the applications are much more demanding for protection of life's and assets at sea.

Since 1974 when the military product started, we have installed a large number of systems on all kind of vessels ranging from navy vessels to submarines.

The high durability of our products together with high reliability, has allowed us to be the leading supplier of the Italian Navy and to expand our presence in foreign countries like Venezuela, Perù, Malaysia, Libia, India, Iraq, Greece, Algeria and UAE, providing complete Fire Detection Systems fully Mil-S-901 compliant.

Currently, our systems are installed on the Italian Aircraft carrier Cavour and Garibaldi, units Horizon and FREMM class, on U212A class submarines and on the most recent hulls manufactured in Italian yards for foreign Navies.

The experience acquired in the Navy segment, and the high quality standard achieved has allowed us to use the products, originally made for the military market, also for the cruise and merchant vessels. In 2004 we have started to install our addressable Fire Detection System on large cruise ships, luxury yachts and merchant ships, gathering

anywhere appreciation and respect for our products

We market our FDS to international ship builders and ship owners. We also market products and systems to other industries where our applications fit in well.

Continuous research and technological innovation are considered important assets for us; the latest developments include new products based on wireless technologies that will significantly contribute to increase safety on board, the most important mission of Microdata.

Our strength is:

- Deep knowledge of customers needs: Ship Owners, Yards and Regulations. Our systems are always designed specifically for them
- Integration : Our products are designed since the beginning as open, ready to interface the other on-board safety systems and co-operating with them for the management of the overall ship safety
- Continuous evolution: we follow up our customers, trying to identify future needs and optimal solutions, both from the Yard and from the Ship Owner perspectives
- Microdata Due operates in a quality system certified according to the UNI EN ISO 9001:2008