VINGTOR STENTOFON



EXIGO

NATIVE IP PUBLIC ADDRESS & GENERAL ALARM SYSTEM



Vingtor-Stentofon products are developed by the Zenitel Group and includes a range of high quality communications equipment and systems. Being in business since 1901, Zenitel's products are recognized globally for offering high quality communications for both offshore and onshore installations. Primary system offering within the Vingtor-Stentofon portfolio are Public Address and Intercom. Zenitel and the company's global partner network, also integrate these systems with other security devices; including Radio, CCTV, Access Control and Alarm for a comprehensive security solution.

Vingtor-Stentofon is world-renowned for its extensive knowledge in the design, construction, installation and maintenance of integrated marine communication systems. Leveraging our long-term experience serving the maritime industry, we offer an impressive portfolio and provide cutting edge solutions to vessels worldwide under the brand name of Vingtor-Stentofon. The Vingtor-Stentofon brand underpins our reputation as a supplier of the most flexible, reliable and advanced communication systems available today.

MEETING YOUR REGULATORY REQUIREMENTS

All Vingtor-Stentofon products that form a part of critical communication have been tested according to IEC 60945, IEC 60533 standards, and comply with SOLAS regulations and codes relevant to on-board communication systems. Our systems are delivered in accordance with the rules of all major classification societies.

FOR ALL YOUR SALES & AFTER SERVICE REQUIREMENTS

Vingtor-Stentofon is a specialist provider of spare parts, repairs, maintenance contracts and refit solutions. Responsibility and availability are our guidelines and customer support and service a first priority.











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EXIGO

NATIVE IP PUBLIC ADDRESS & GENERAL ALARM SYSTEM

The Exigo system is specially designed to meet the demands of public address and general alarm systems for offshore installation and ships. The system is scalable and offers a set of standard and optional features making it ideal for all kinds of ships and offshore installations.

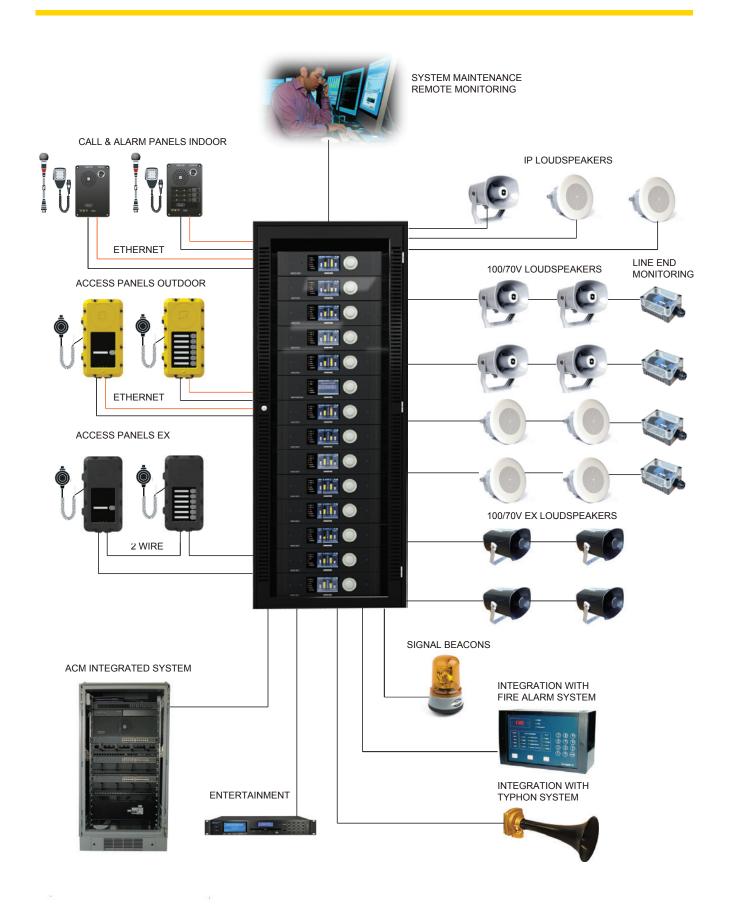
The system can also utilize innovative addressable IP loudspeakers. The IP loudspeakers are individually addressable, configurable and monitored. Each IP loudspeaker features maximum 10 watt audio effect.

The Exigo system supports the integrated PA and GA solution. This solution is type approved for public address and general alarm. Together with the ACM, the Exigo system is cost efficient where loudspeaker loops are used together with the integrated ACM units to cover areas where PA and GA are required.

The system is delivered in one or more racks with all internal wiring and configuration done according to customer specifications.

FEATURES

- Fully IP PA and GA system made for offshore and ship environments
- Addressable IP loudspeakers supporting PoE (10 Watts)
- Full monitoring of system components, call panels and speaker loops
- Power amplifiers 100/70 volt line with Ethernet interface
- Supports 250 PA zones
- Control inputs and outputs
- Analogue audio inputs and outputs
- Mains 115/230 Vac and 24/48 Vdc emergency power with automatic switch over
- Integration with PBX, typhoon and fire alarm
- Supports Integrated PA, GA and intercom solution



EXIGO CENTRAL EQUIPMENT



See Catalog
"Common Equipment"
for suitable system racks

102300000

ESC1 EXIGO SYSTEM CONTROLLER

- Control and routing of audio channels
- 115 230 VAC primary power and 24 48 VDC secondary power
- Redundant Ethernet connections
- Digital audio processing
- Receives, handles and stores fault messages from the system
- Interface to PABX and iPBX
- Interface to telecom management, safety, automation and security systems
- Voice message storage
- · Programmable alarm generator
- 6 configurable control outputs
- 6 configurable control input



1023102200

ENA2200 EXIGO NETWORK AMPLIFIER 2 X 200 WATT POWER

- 2x 200 watt continuous GA effect
- 2x 200 watt PA effect
- Power efficient class D technology
- 115/230 VAC primary power and 24-48 VDC secondary power
- Redundant Ethernet connections
- Digital audio processing, equalizer and audio delay
- Tick tone generator
- Loudspeaker line monitoring
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs



Size (WxHxD): 482,2 x 87,5 x 394 mm Weight: 9.5 kg

Additional Information: IP-32

Size (WxHxD): 482,2 x 87,5 x 394 mm Weight: 13.0 kg

Additional Information: IP-32

1023102400

ENA2400-DC EXIGO NETWORK AMPLIFIER 2 X 400W POWER

- 2x 400 watt continuous GA effect
- 2x 400 watt PA effect
- Power efficient class D technology
- 48 VDC power
- Redundant Ethernet connections
- Digital audio processing, equalizer and audio delay
- Tick tone generator
- Loudspeaker line monitoring
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control input



Size (WxHxD): 482,2 x 87,5 x 394 mm Weight: 13.5 kg



1023200030

ECPIR-P EXIGO CALL PANEL, PTT BUTTON, PLUGGABLE MICRO-PHONE, ETHERNET

- Fully digital call panel for console mounting
- Communication and power over Ethernet
- Separate PTT button
- Indicators for power, call and fault
- Can be used with either handheld or gooseneck microphone
- For single or dual systems
- Up to four EBMDR-8 expansion modules can be connected



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Additional Information: IP-32

1023201008

EAPIR-8 EXIGO ALARM PANEL. 8 BUTTONS, ETHERNET

- Fully digital alarm panel for console mounting
- Communication and power over Ethernet
- Eight programmable buttons with individual labels and status indicators
- Optional button protection covers
- Indicators for power, call and fault
- For single or dual systems
- Up to four EBMDR-8 expansion modules can be connected



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Additional Information: IP-32

1023253008

EBMDR-8 EXIGO BUTTON EXPANSION MODULE, 8 BUTTONS

- Button expansion module for Exigo access panels
- Powered from master access panels
- Eight programmable buttons with individual labels and status indicators
- Optional button protection covers
- For single or dual systems



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Additional Information: IP-32

1023200033

ECPIR-3P EXIGO CALL PANEL. PTT + 3 BUTTONS, PLUGGABLE MICRO-PHONE, ETHERNET

- Fully digital call panel for console mounting
- Communication and power over Ethernet
- Three programmable buttons with individual labels and status indicators
- Separate PTT button
- Optional button protection covers
- Indicators for power, call and fault
- Can be used with either handheld or gooseneck microphone
- For single or dual systems
- Up to four EBMDR-8 expansion modules can be connected



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

1008031000

CRM-V IP FLUSH MASTER

- Made for Critical Communication over IP
- Connects directly to the IP network, no geographical limitations
- Large high contrast display with backlight for excellent readability
- White light behind all keys
- Four freely programmable single-touch keys (DAK)
- Superb audio technology
- Optional handset unit
- Remote upgrade, configuration and monitoring
- Note! For single PA system only



Size (WxHxD): 125 x 280 x 30 mm Weight: 0.37 kg

1008010100

CRM-V DAK KEY EXPANSION MODULE FOR CRM-V, 48 KEYS

- Extends IP Flush Master Station with 48 programmable DAK keys (direct access keys)
- Ideal for PA, talk-back calls
- Visual indications with two LEDs (green/red) per DAK key
- All keys have backlight (adjustable)
- Easy labelling of keys
- Note! For single PA system only

1008097500

CRM-V GOOSENECK

• For CRM-V IP Flush Master



Size :N/A Weight: N/A



Size (WxHxD): 125 x 280 x 30 mm Weight: 0.65 kg

ACCESSORIES FOR PANELS INDOOR

3005020033

MB-30G GOOSENECK MICROPHONE

- Electret Microphone, 2K ohm
- 5-pin DIN plug
- Microphone for Exigo ECPIR family



Length: 460mm Weight: 0.1kg

Additional information: IP-rating IP-32

1023533011

EMMAR-1H HANDHELD MICROPHONE FOR ECPIR PANELS

- Handheld microphone for Exigo ECPIR family
- Stainless steel bracket included
- Push-To-Talk button
- 3-meter curly cord
- Equipped with locking DIN plug





1023595010

EMBR-1 EXIGO DESKTOP MOUNTING BOX FOR ONE ACCESS PANEL



Size (WxHxD): 104 x 188 x 74 mm Weight: 0.35 kg

1023595020

EMBR-2 EXIGO DESKTOP MOUNTING BOX FOR TWO ACCESS PANELS



Size (WxHxD): 201 x 188 x 74 mm Weight: 0.7 kg

Additional information: 1023595060 EMBR-6 Exigo kit for joining Boxes

Size (WxHxD): 170 x 105 x 45 mm Weight: 0.3 kg

Additional information: IP-Rating IP-32

EXIGO ACCESS PANELS



ACCESSORIES FOR EXIGO ACCESS PANELS OUTDOOR

1023201201

EAPII-1 EXIGO INDUSTRIAL ACCESS PANEL, 1 BUTTON

- Network access panel for industrial environments
- DSP for acoustic signal processing
- Communication and power over Ethernet
- One programmable button with individual label and status indicators
- Optional button protection cover
- Indicators for power, call and fault
- For single or dual systems (A and B systems)



Size (WxHxD): 178 x 346 x 101 mm Weight: 1.9 kg

Additional Information: IP-66 1023594100 Optional button protection, info page 10

1023533312

EMMAI-2H HANDHELD INDUSTRIAL MICROPHONE, COMPACT

- Handheld microphone for industrial applications
- PTT key
- Bracket included
- Noise cancelling microphone
- Designed for Exigo industrial access panels & Turbine industrial intercom stations
- Curled cord 0,75 m (contracted) / 2 m (extended)

EAPII-6 EXIGO INDUSTRIAL ACCESS PANEL, 6 BUTTONS

 Network access panel for industrial environments

1023201206

- DSP for acoustic signal processing
- Communication and power over Ethernet
- Six programmable buttons with individual labels and status indicators
- Optional button protection covers
- Indicators for power, call and fault
- For single or dual systems (A and B systems)



Size (WxHxD): 178 x 346 x 101 mm Weight: 1.9 kg

Additional Information: IP-66 1023594100 Optional button protection, info page 10

1008140100

TA-10 RELAY MODULE

- Designed for use with Turbine Industrial IP Intercom stations
- Dual high-power relays (DPDT)
- Up to 400VAC /48 VDC per relay
- Up to 6A current per relay
- Heavy-duty spring-loaded terminals with spare grounding terminals
- Powered by Turbine Industrial stations (TFIE-x) or Turbine Extended Kit (TKIE-1



Size (WxHxD): 44 x 68 x 21,5 mm Weight: 0.22 kg



Size (WxHxD): 100 x 50 x 40 mm Weight: 0.1 kg

EXIGO ACCESS PANELS EX



FOR EXIGO ACCESS PANELS EX

1023594100

EGA-1 EXIGO BUTTON PROTECTION COVERS, TRANSPARENT

 Button Protection Covers (10x), for TFIE/TFIX/ EAPII/EAPFX



Size (WxHxD): 26,6 x 20,3 x 4,2 Weight: N/A

Additional Information: Set of 10x pcs.

1023221511

EAPFX-1 EXIGO INDUSTRIAL EX ACCESS PANEL, 1 BUTTON

- Network access panel for explosive atmospheres
- Ex mb ib e IIC T4 Gb
- DSP for acoustic signal processing
- IP networking and power over Flowire technology
- One programmable button with individual label and status indicators
- Optional button protection covers
- Indicators for power, call and fault
- For single or dual systems (A and B systems)

Size (WxHxD): 178 x 346 x 101 mm Weight: 3.4 kg

Additional Information: IP-66 Ex class Ex mb ib e IIC T4 Gb Optional button protection

1023533511

EMMAX-1H HANDHELD MICROPHONE WITH PTT FOR EX APPLICATIONS

- Handheld microphone for Ex applications
- Curled cord
- PTT key on handset
- Bracket included
- Noise cancelling microphone
- Designed for EXIGO Ex access panels & Turbine Ex explosion-proof intercom stations
- Curled cord 0,75 m (contracted) / 2 m (extended)

1023221516

EAPFX-6 EXIGO INDUSTRIAL EX ACCESS PANEL, 6 BUTTONS

- Network access panel for explosive atmospheres
- Ex mb ib e IIC T4 Gb
- DSP for acoustic signal processing
- IP networking and power over Flowire technology
- Six programmable buttons with individual labels and status indicators
- Optional button protection covers
- Indicators for power, call and fault
- For single or dual systems (A and B systems)



Size (WxHxD): 178 x 346 x 101 mm Weight: 3.4 kg

Additional Information: IP-66 Ex mb ib e IIC T4 Gb Optional button protection



Size (WxHxD): 44 x 68 x 21,5 mm

Weight: 0.22 kg

EXIGO FLOWIRE

The Flowire converter enables Ethernet to run on the same two wires as power, giving simpler cabling and opens up for longer cable hauls.

The Flowire converter is also capable of powering the Ethernet deviceattached to it. (FCDC1 only)

Note!

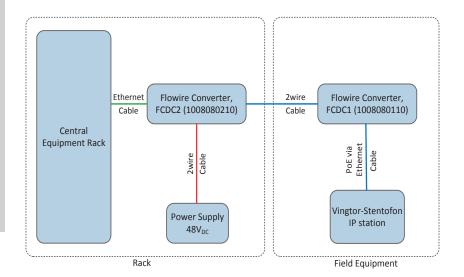
FCDC2 Flowire is needed for Ex Call & Alarm Panels

OPTIONAL CONNECTION TO CENTRAL FOR **EXIGO ACCESS PANELS**

The Exigo Access Panels can use the 2-wire flowire system for connection. A Zenitel proprietary protocol, the Flowire in this case, is used to extend the Ethernet connection and support power distribution on the 2-wire cabling infrastructure.

To support the Flowire interface, the central equipment rack must be equipped with a Flowire Converter (FCDC2).

Each PoE station will require their own FCDC1



1008080210

FCDC2 FLOWIRE ETHERNET CONVERTER. DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, up to 2 km, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster star topology
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- Protection IP-20 IMPOTRANT:
- 24V DC non-PoE for Ex equipment
- 48V DC non-PoE for Inka, Turbine and Exigo



Size (WxHxD): 110 x 66 x 17 mm Weight: 0.3 kg

2990102244 Flowire 250 Powerbox PSU, 48V DC, 250W

2990102244

FLOWIRE 250 POWERBOX PSU, 48V DC. 250W

- EN60945 compliant
- Universal input (90 265 Vac)
- Efficiency above 90%
- **Active Power Factor Correction**
- Adjustable output
- Overload and overvoltage protection
- Thermal overload protection
- Conformal coating
- DC OK signal and potential free contact
- Cooling by free air convection
- RoHS compliant
- Internal redundancy diode
- Single or parallel mode user selectable



Size (WxHxD): 132 x 50 x 128 mm Weight 1.2 kg

1008080110

FCDC1 FLOWIRE ETHERNET CONVERTER, DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to VINGTOR-STENTOFON products)
- Power 24 Vdc 48 Vdc
- Important note! Several clusters can not share the same cable or junction boxes.



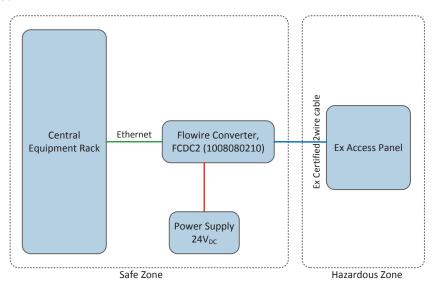
Size (WxHxD): 120 x 65 x 13 mm Weight: 0.3 kg

Additional Information: Protection IP-20

CONNECTION TO CENTRAL FOR EX PROOF EXIGO STATIONS

The Ex Products are connected to the central equipment rack using Ex certified 2-wire cables. A Zenitel proprietary protocol, Flowire, is used to extend the Ethernet connection and support power distribution on the 2-wire cabling infrastructure.

To support the Flowire interface, the central equipment rack must be equipped with a Flowire Converter (FCDC2). See chapter Dataswitches for Flowire FCDC2 and 24V dc powersupplies



1008080210

FCDC2 FLOWIRE ETHERNET CONVERTER. DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, up to 2 km, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster star topology
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- Protection IP-20 IMPOTRANT:
- 24V DC non-PoE for Ex equipment
- 48V DC non-PoE for Inka, Turbine and Exigo devices



Size (WxHxD): 110 x 66 x 17 mm Weight: 0.3 kg

Accessories: 2990102120 Powerbox PSU, 24V DC, 120W 2990102240 Powerbox PSU, 24V DC, 250W

2990102120

FLOWIRE EX 120 POWERBOX PSU, 24VDC 120W

- EN60945 compliant
- Universal input (90 265 Vac)
- Efficiency above 90%
- Active Power Factor Correction
- Adjustable output
- Overload and overvoltage protection
- Thermal overload protection
- Conformal coating
- DC OK signal and potential free contact
- Cooling by free air convection
- RoHS compliant
- Internal redundancy diode
- Single or parallel mode user selectable



Size (WxHxD): 132 x 37 x 128 mm Weight: 0.92 kg

2990102240

FLOWIRE EX 250 POWERBOX PSU, 24VDC, 250W

- EN60945 compliant
- Universal input (90 265 Vac)
- Efficiency above 90%
- Active Power Factor Correction
- Adjustable output
- Overload and overvoltage protection
- Thermal overload protection
- Conformal coating
- DC OK signal and potential free contact
- Cooling by free air convection
- RoHS compliant
- Internal redundancy diode
- Single or parallel mode user selectable



Size (WxHxD): 132 x 50 x 128 mm Weight 1.2 kg

EXIGO MONITORING



ELTSI-1

The ELTSI-1 Line End Transponder is designed for use on ships and offshore environments. Hence, the construction is very robust and can handle mobile environments as well as stationary, temperature controlled rooms.

The line end transponder ensures reliable monitoring of the loudspeaker lines. Where impedance measurements may result in an erroneous report of a broken line, the line end transponder will always report the correct health of the loudspeaker loop.

Up to 10 line end transponders may be connected to the same amplifier, making it possible to branch out the loudspeaker loops

1023540000

ELTSI-1 **EXIGO INDUSTRIAL LINE END** TRANSPONDER, IP67

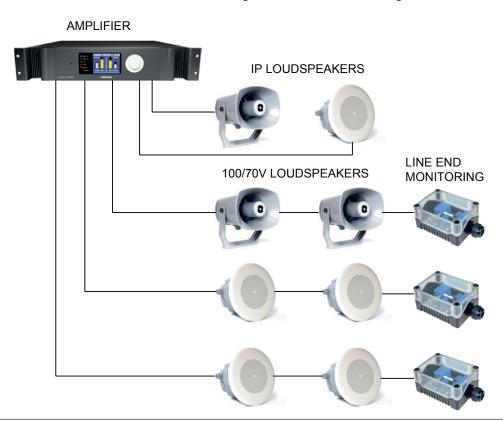
- Loudspeaker line end transponder
- Powered from and communicates over the loudspeaker lines
- Small and simple to install
- Rugged and weather proof housing



Size (WxHxD): 66 x 106 x 53 mm Weight: 0.350 kg

Additional Information: IP-67

Line End Transponder Principle





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