Vingtor-Stentofon products are developed by the Zenitel Group and include a range of high quality communication 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 systems 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.
EXIGO
NATIVE IP PUBLIC ADDRESS & GENERAL ALARM SYSTEM

The Exigo system is designed to meet the requirements of Public Address & General Alarm systems for offshore installations, ships and other demanding areas. The system is scalable and offers a set of standard and optional features making it ideal for all kinds of installations.

The Exigo system is a native IP system designed to use any type of network equipment and each device is self-monitoring. The devices themselves will report any faults to the system controller allowing for a centralized monitoring of all connected devices. The system controller is also the integration point for the system and enables a wide variety of integrations spanning from analog integration, digital IP-IP audio integration using SIP to remote monitoring using a SDK/API or SNMP.

The system can also utilize innovative addressable IP loudspeakers. The IP loudspeakers are individually addressable, configurable and monitored. Each IP loudspeaker features a maximum 10-watt audio effect and is powered over the Ethernet connection.

FEATURES
- Native IP PA/GA system for robust and demanding environments
- Full monitoring of system components, call panels and speaker loops
- Class-D amplifiers with 100/70-volt line and Ethernet interface
- Supports 250 PA zones
- Control inputs and outputs
- Analog 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
- Addressable IP loudspeakers supporting PoE (10 Watts)

Learn more about EXIGO: www.zenitel.com/exigo-ip-public-address-system
SYSTEM MAINTENANCE
REMOTE MONITORING

CALL & ALARM PANELS INDOOR

ACCESS PANELS OUTDOOR

ACCESS PANELS EX

ETHERNET

INTERCOM

ALPHACOM INTEGRATION

ENTERTAINMENT

SIGNAL BEACONS

INTEGRATION WITH FIRE ALARM SYSTEM

INTEGRATION WITH FOGHORN SYSTEM

IP LOUDSPEAKERS

100/70V LOUDSPEAKERS

LINE-END MONITORING

100/70V EX LOUDSPEAKERS

ACCESS PANELS OUTDOOR

100/70V EX LOUDSPEAKERS
EXIGO CENTRAL EQUIPMENT

See Catalog "Common Equipment" for suitable system racks

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 inputs

Additional Information: IP-32

ENA2000 EXIGO NETWORK AMPLIFIER
2 X 200 WATT POWER
- 2x 200 watt continuous GA effect
- 2x 200 watt PA effect
- Power efficient class D technology
- 110-230 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
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs

Additional Information: IP-32

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
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs

Additional Information: IP-32

ENA2400-AC EXIGO NETWORK AMPLIFIER
2 X 400W POWER
- 2x 400 watt continuous GA effect
- 2x 400 watt PA effect
- Power efficient class D technology
- 110-230 VAC power
- Redundant Ethernet connections
- Digital audio processing, equalizer and audio delay
- Tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs

Additional Information: IP-32

ENA2100-AC EXIGO NETWORK AMPLIFIER
2 X 100W POWER
- 2x 100-watt continuous GA effect
- Power efficient class D technology
- 115-230 VAC power
- Redundant Ethernet connections
- Digital audio processing
- Embedded tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Line Input
- 2 configurable control outputs
- 2 configurable control inputs

Additional Information: IP-32

ENA2100-DC EXIGO NETWORK AMPLIFIER
2 X 100W POWER
- 2x 100-watt continuous GA effect
- Power efficient class D technology
- 48 VDC power
- Redundant Ethernet connections
- Digital audio processing
- Embedded tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Line Input
- 2 configurable control outputs
- 2 configurable control inputs

Additional Information: IP-32

See Catalog "Common Equipment" for suitable system racks
INDOOR CALL & ALARM PANELS

ECPIR-P EXIGO CALL PANEL, PTT BUTTON, PLUGGABLE MICROPHONE, ETHERNET
- 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

ECPIR-3P EXIGO CALL PANEL, PTT + 3 BUTTONS, PLUGGABLE MICROPHONE, ETHERNET
- 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
Additional Information: IP-32

EAPIR-8 EXIGO ALARM PANEL, 8 BUTTONS, ETHERNET
- 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

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
**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

**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

**CRM-V-GN GooseNeck Microphone**

- Noise-cancelling gooseneck microphone for CRM-V IP Flush Master station
- Ideal for Public Address and control room applications

**Accessories for Indoor Panels**

**MB-30G GooseNeck Microphone**

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

**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

**EMBR-1 Exigo Desktop Mounting Box for One Access Panel**

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

**EMBR-2 Exigo Desktop Mounting Box for Two Access Panels**

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

**CRM-V DAK Key Expansion Module for CRM-V, 48 Keys**

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

**EMBR-6 Exigo Kit for Joining Boxes**

- Size (WxHxD): 90 x 32 x 45 mm
  - Weight: 0.1 kg
  - Related items: 1008031000 CRM-V IP Flush Master

**EMBR-1H Handheld Microphone for ECPIR Panels**

- Length: 460mm
  - Weight: 0.1kg
  - Additional information: IP-rating IP-32
### EXIGO OUTDOOR ACCESS PANELS

**EAPII-1 EXIGO INDUSTRIAL ACCESS PANEL, 1 BUTTON**
- Digital call and 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
- Embedded or optional handheld microphone
- 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

**EAPII-6 EXIGO INDUSTRIAL ACCESS PANEL, 6 BUTTONS**
- Digital call and access panel for industrial environments
- 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
- Embedded or optional handheld microphone
- 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

### ACCESSORIES FOR OUTDOOR PANELS

**EAPII-6**
- Exigo Power Injector, Spare Pair PoE, 6 Ports
- PoE midspan injector supplying up to 15.7W per port for up to 6 devices
- Used for configurations with requirement for redundant A and B systems

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

Additional Information: IP-66

**TA-23 INDUSTRIAL HANDSET**
- Rugged handset for EAPII access panels
- PTT-key for operation in noisy environments
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible

Size (WxHxD): 50 x 200 x 70 mm  
Weight: 0.310 kg

Additional Information: IP-66

**EMMAI-2H INDUSTRIAL MIC**
- PTT key on handset
- Noise cancelling microphone
- High quality digital background noise reduction
- HD voice compatible
- Designed for use with EAPII access panels

Size (WxHxD): 44 x 68 x 21.5 mm  
Weight: 0.22 kg

Additional Information: IP-66  
Wall bracket included

**EMMAI-2H INDUSTRIAL MIC**
- Designed for use with EAPII access panels
- Dual high-power relays (DPDT)
- Up to 400VAC /48 VDC per relay
- Up to 8A current per relay
- Heavy-duty spring-loaded terminals with spare grounding terminals
- Powered by Exigo EAPII access panels or Turbine Extended Kit (TKIE-1)

Size (WxHxD): 100 x 50 x 40 mm  
Weight: 0.1 kg
EXIGO
EX ACCESS PANELS

EAPFX-1 EXIGO INDUSTRIAL EX ACCESS PANEL, 1 BUTTON
- Digital call and 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
- Embedded or optional handheld microphone
- 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

1023221511

EAPFX-6 EXIGO INDUSTRIAL EX ACCESS PANEL, 6 BUTTONS
- Digital call and 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
- Embedded or optional handheld microphone
- 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

1023221516

ACCESSORIES FOR EX PANELS

EGA-1 BUTTON PROTECTION COVERS
- Button Protection Covers (10x) for EAPII/EAPFX

Size (WxHxD): 26.6 x 20.3 x 4.2  Weight:  0.4 kg
Additional Information: Set of 10 pieces

1023594100

EX-PROOF HEADSET
TAX-2B 10M CABLE & PLUGBOX
- Rugged headset for Ex application
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- High quality audio
- Optional in-ear monitors may be connected for added damping in extreme environments
- IP Rating: IP-66
- Standard 4-pole Nexus connector for easy connection/replacement
- Designed for Turbine Ex explosion-proof intercoms
- AK5850HS: Ex-Proof Headset 1008150025: TAX-2B Cable & Plugbox

Size (WxHxD): 200 x 70 x 50 mm Weight: 310 g

1008150030

TAX-3 HANDSET WITH PTT
- Rugged handset for Ex application
- PTT key for operation in noisy environments
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- IP Rating: IP-66

Size (WxHxD): 200 x 70 x 50 mm Weight: 310 g

1023533511

EMMAX-1H HANDHELD MIC
- Handheld mic with PTT key for Ex applications
- Curled cord
- Noise cancelling microphone
- High quality digital background noise reduction
- HD voice compatible

Size (WxHxD): 44 x 68 x 21.5 mm Weight: 0.22 kg
Additional Information: IP-66
Wall bracket included

1008150025
**FLOWIRE CABLING**

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

**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

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

**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
- **Important**
  - 24V DC non-PoE for Ex equipment
  - FCDC2 Flowire is required for Ex Call & Alarm Panels

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

**CONNECTION TO CENTRAL EQUIPMENT RACK FOR OUTDOOR AND EX ACCESS PANELS**

The Exigo Access Panels can use the 2-wire Flowire system for connection. 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 an FCDC2 Flowire Converter. Each outdoor access panel will require its own FCDC1 Flowire Converter.

The Ex access panel located in the hazardous zone is connected to the central equipment rack located in the safe zone using an Ex certified 2-wire cable.

**2990101120**

**XP POWER SUPPLY, 48VDC 120W FOR FCDC1**

- Up to 90% Efficiency
- Wide Adjustment Range
- Parallel Function
- DC Standby Versions
- Full Power from -40 °C to +60 °C
- Connector Options

**Size (WxHxD): 142 x 63.5 x 116 mm  Wt: 920g**

**2990101240**

**XP POWER SUPPLY, 48VDC 240W FOR FCDC1**

- Up to 90% Efficiency
- Wide Adjustment Range
- Parallel Function
- DC Standby Versions
- Full Power from -40 °C to +60 °C
- Connector Options

**Size (WxHxD): 142 x 83 x 111.3mm  Wt: 1360g**

**2990102120**

**FLOWIRE EX 120 POWERBOX PSU, 24VDC 120W FOR FCDC2**

- 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**
EXIGO
ENHANCED
MONITORING

ELTSI-1
The intelligent Line End Transponder ensures reliable monitoring of the loudspeaker lines. The Exigo amplifier knows how many Line End Transponders are used and will check that all of them are able to communicate with the amplifier according to the monitoring cycles. 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 or distribute along the loudspeaker loop for more detailed fault reporting.

Line End Transponder Principle

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): 80 x 106 x 53 mm  Weight:  0.350 kg

Additional Information: IP-67