



EXIGO

NATIVE IP PUBLIC ADDRESS & GENERAL ALARM SYSTEM

BECAUSE

 when communication is critical

VINGTOR STENTOFON

by ZENITEL GROUP

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.



1952



1964



1975



1996



2001



2009

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2011



2012



2013



2015



2016



2017

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.

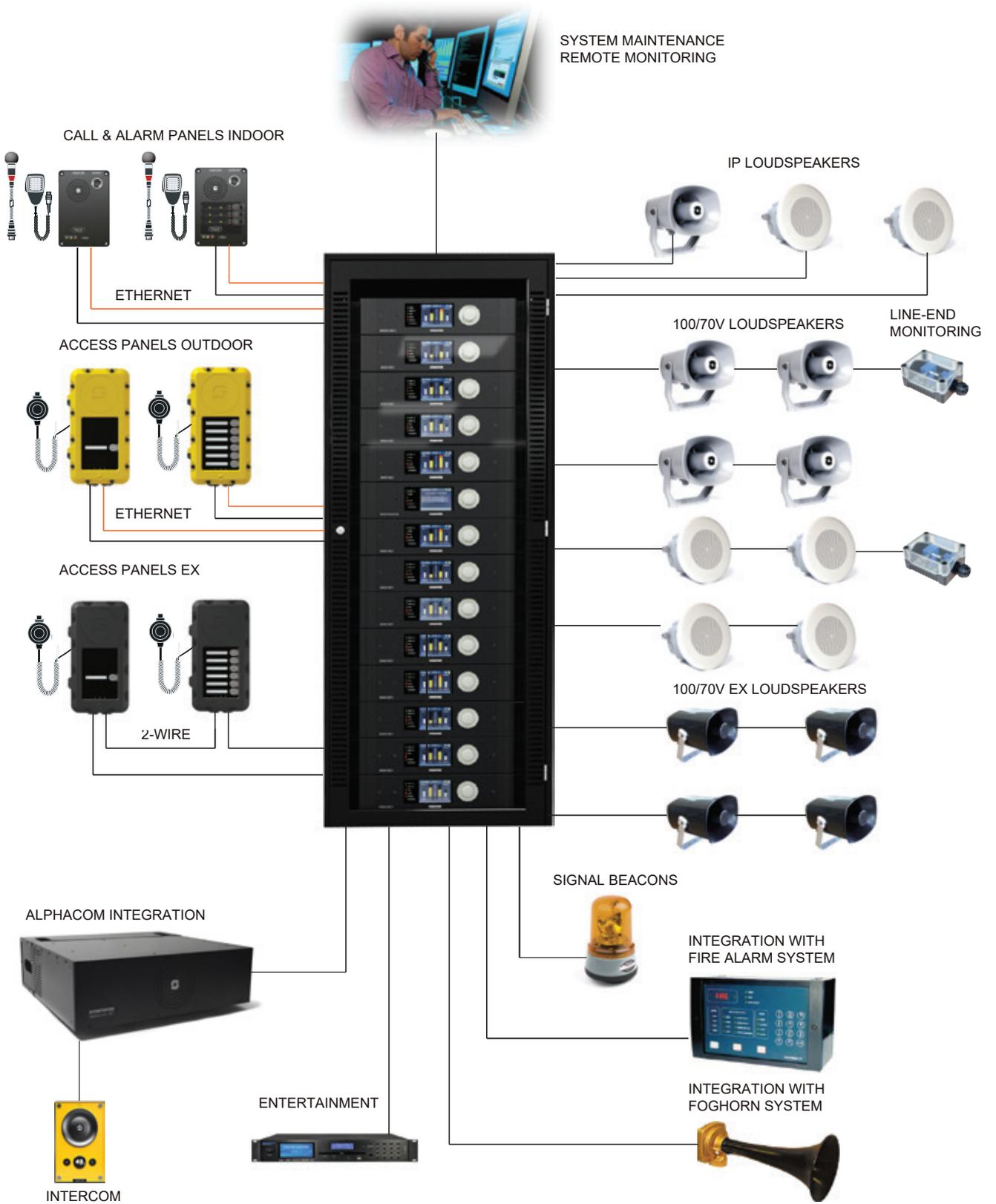
The system can also utilize innovative addressable IP loudspeakers. The IP loudspeakers are individually addressable, configurable and monitored. Each IP loudspeaker features a maximum 10-watt audio effect and is powered over the Ethernet connection.

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



EXIGO CENTRAL EQUIPMENT



See Catalog
"Common Equipment" for
suitable system racks

1023000000

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



Size (WxHxD): 482 x 87 x 390 mm Weight: 9.5 kg

Additional Information: IP-32

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
- 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



Size (WxHxD): 482 x 87 x 390 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
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control input



Size (WxHxD): 482 x 87 x 390 mm Weight: 13.5 kg

Additional Information: IP-32

1023102410

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 input



Size (WxHxD): 482 x 87 x 390 mm Weight: 13.5 kg

Additional Information: IP-32

1023102100

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



Size (WxHxD): 254 x 87 x 308 mm Weight: 5.75 kg

Additional Information: IP-32

EXIGO INDOOR CALL & ALARM PANELS



1023200030

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

1023200033

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

1023201008

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

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

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



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

1008097500

CRM-V-GN GOOSENECK MICROPHONE

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



Size (WxHxD): 90 x 32 x 45 mm Weight: 0.1 kg

Related items: 1008031000 CRM-V IP Flush Master

ACCESSORIES FOR INDOOR PANELS

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 OUTDOOR ACCESS PANELS



1023201201

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

1023201206

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

1023697006

EPIPR-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): 132 x 57 x 32 mm
Weight: 0.3 kg

1008140230

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

1008140100

TA-10 RELAY MODULE

- Designed for use with EAPII access panels
- 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 Exigo EAPII access panels or Turbine Extended Kit (TKIE-1)



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

1023533312

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

EXIGO EX ACCESS PANELS



1023221511

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

1023221516

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 mb ib e IIC T4 Gb
Optional button protection

ACCESSORIES FOR EX PANELS

AK5850HS / 1008150025

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



Weight: 0.4 kg

Additional Information: IP-66
1008150025 TAX-2b 10m Cable and Plugbox with PTT for AK5850HS

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: IP66



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

1023594100

EGA-1 BUTTON PROTECTION COVERS

- Button Protection Covers (10x) for EAPII/EAPFX



Size (WxHxD): 26.6 x 20.3 x 4.2

Additional Information: Set of 10 pieces

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

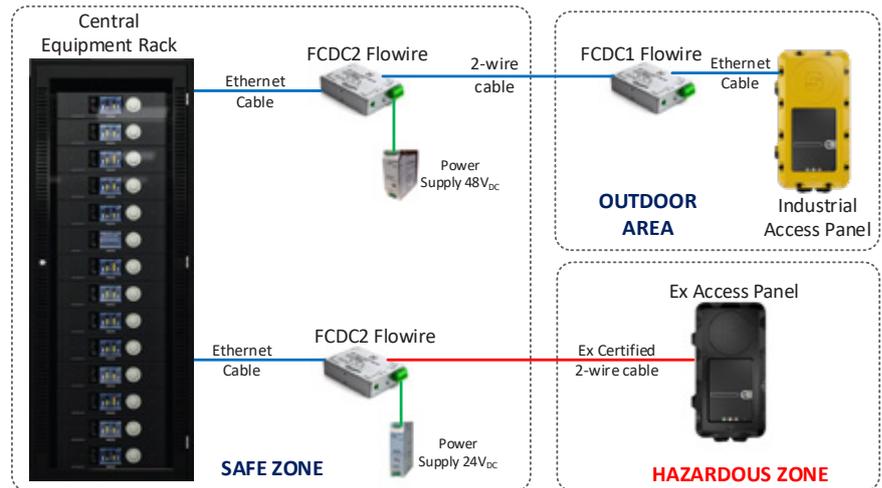


Size (WxHxD): 110 x 66 x 17 mm Weight: 0.3 kg

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

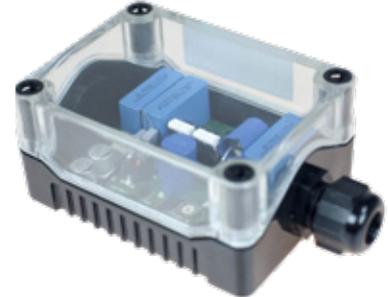
The intelligent Line End Transponder ensures reliable monitoring of the loudspeaker lines. The Exigo amplifier knows how many Line End Transponders are used and will check that all of them are able to communicate with the amplifier according to the monitoring cycles. Where impedance measurements may 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.

1023540000

ELTSI-1 EXIGO INDUSTRIAL LINE END TRANSPONDER, IP67

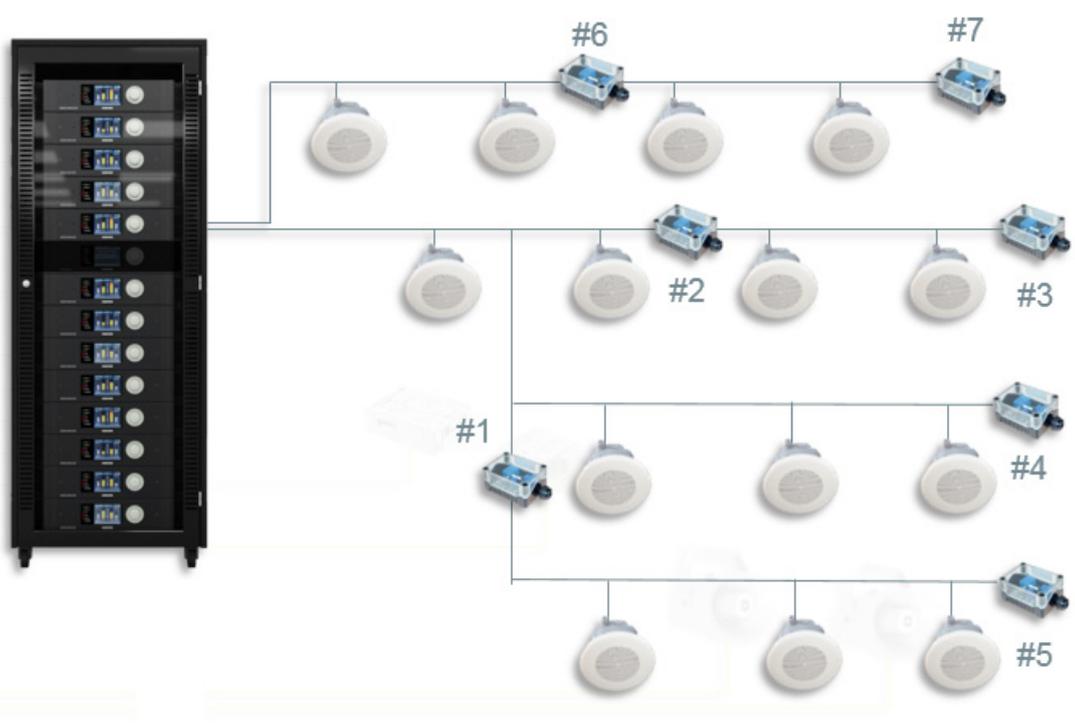
- Loudspeaker line end transponder
- Powered from and communicates over the loudspeaker lines
- Small and simple to install
- Rugged and weather proof housing



Size (WxHxD): 80 x 106 x 53 mm Weight: 0.350 kg

Additional Information: IP-67

Line End Transponder Principle





EXIGO

NATIVE IP PA/GA SYSTEM

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