

**PROEL** 

# COMMERCIAL AUDIO



Proel is a leading international company specialising in the design, production and distribution of **audio, video and lighting** systems for the world of live entertainment and fixed installations, both high power and low current.

Proel also produces a wide range of the finest **musical instruments and accessories**.

The company was founded in 1991 and has its headquarters in Sant'Omero, Italy.

Proel's aim is ultimate customer satisfaction, achieved by the delivery of top-quality products and top-quality service, constantly and energetically striving to provide and develop solutions and products that are able to meet many different needs and specifications.





**PROEL**



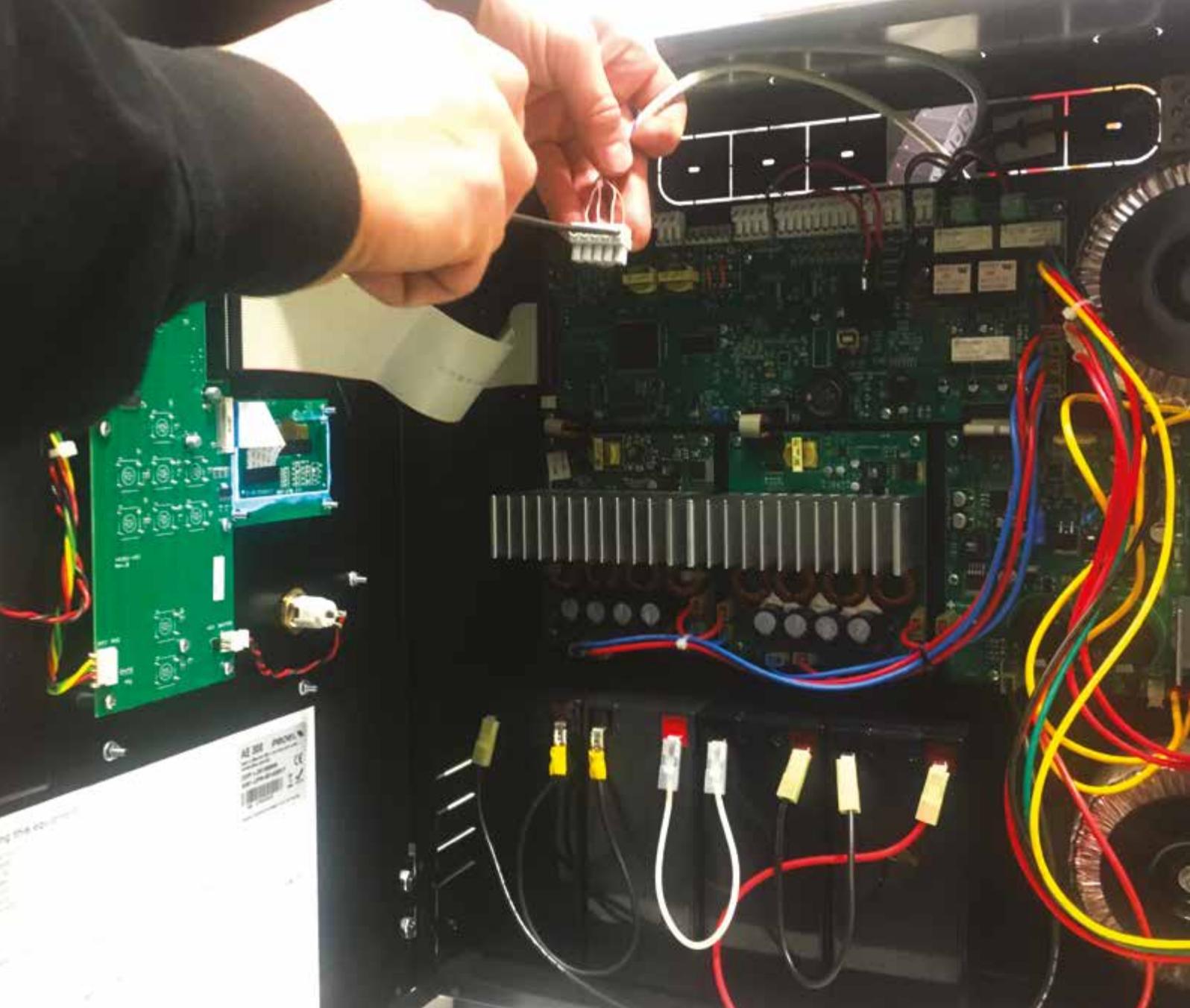


Proel is represented in Europe, Asia and Africa through its different joint ventures.

Proel reaches **more than 120 countries** world-wide thanks to its multitude of ambassadors and distributors.

In just over 25 years Proel has **achieved many goals**: from just three employees to many hundreds; from a few accessories to **thousands of products** dedicated to different applications; from origins as a product re-seller to supporting four **Research and Development facilities** and industrial engineering capabilities; from just a single sales channel to a **global market**.

- **Sant'Omero** - Italy
- **Acquaviva Picena** - Italy
- **London** - United Kingdom
- **Tunisi** - Tunisia
- **Abu Dhabi** - United Arab Emirates
- **Seoul** - South Korea
- **Kuala Lumpur** - Malaysia
- **Los Angeles** - USA



## DESIGN-RESEARCH-DEVELOPMENT

Reaching the ideal balance of **performance, functionality, reliability, design, and aesthetics** are the fundamentals of Proel's mission – driven by the ability to **quickly respond to market trends and demand**.

Proel pursues all these goals thanks to its **four R&D laboratories** located all over Italy, where 30 engineers with expertise in audio, acoustics, mechanical design, electronics, and information technologies are constantly working to develop new solutions and new products.

Amongst these, the spearhead is **PROEL LAB**, the new **creative hub of Proel Group**. In this 25,000 square metre facility situated in Acquaviva Picena, Marche-Italy, Proel's engineers are carrying on an energetic program of new model and production concepts. Their skill is in incorporating and roaming between several different manufacturing methodologies such as lean production, mass production and customer order, ensuring a high degree of organisational flexibility and the opportunity of an impeccable **"Made in Italy"** stamp of quality.



**PROEL** 

**COMMERCIAL  
AUDIO**

**THE RIGHT SOLUTION**

In airports, in hospitals, for offices, for schools, for paging and for background music; always the right solution for effective and efficient evacuation systems to operating to international standards and ensuring conditions of maximum safety for all occupants.

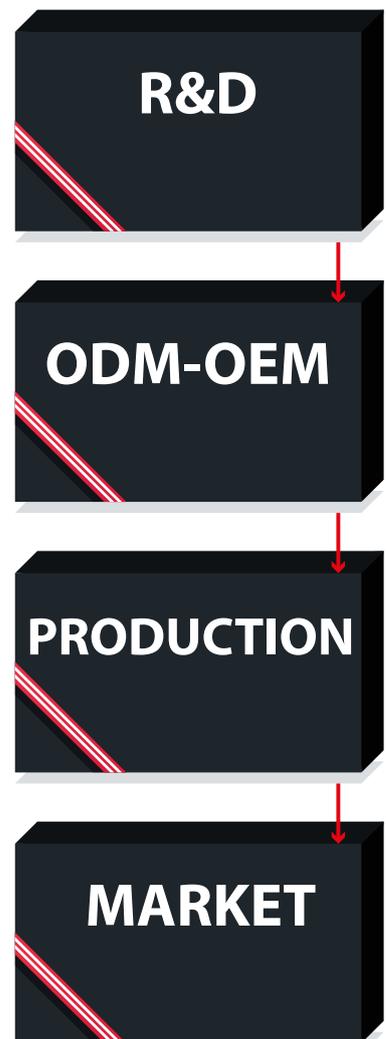


## **CUSTOMIZED PRODUCTS**

Standard products ready for use or subject to OEM & ODM processes matching customer needs and specifications.

The **OEM** and **ODM** process based products are Proel's internal R&D team's response to specific customer and/or country standards.

**Research, development, testing, quality control: "customized solutions" 100% MADE IN ITALY.**





Since its origins, the **Italian spirit** characterises Proel's approach to everything the company does; a company born out from **love for beauty, aesthetics, design, enthusiasm, and minute attention to detail**: the reasons why Proel's "**MADE, MADE, MADE IN ITALY**" concept is a seal of quality and guarantee the design and **high-tech capabilities** of this Italian manufacturer.



**MODULAR EVACUATION SYSTEMS**

---

**COMPACT EVACUATION SYSTEMS**

---

**MICROPHONES**

---

**AUDIO SYSTEMS**

---

**LNE SYSTEMS**

---



# PA EV PROM5Z



- Digital Master matrix certified **EN 54-16**
- Up to 5 slots for direct plug-in modules for the Amplifier/line control
- Up to 108 zones (54 with dual-line architecture for zone A/B)
- LCD display with navigation knobs for the complete unit control Led
- Power, Fault Warning & Voice Alarm
- Front USB socket for PC interface purposes
- 24 Vdc power supply input
- Spare amplifier input
- Two RJ45 connectors for the Slave matrix connecting purposes
- Two RJ45 connectors for the microphone units connecting (up to 108 microphone units)
- Two contact activation messages and in/out programmable connectors
- Common fault out
- 2 rack unit 19" Standard

# PA EV PROS8Z



- **EN54-16** certified slave matrix
- Up to 8 directly insertable modules for amplifier/line control
- Power LED
- Fault Warning and Voice Alarm
- 24Vdc power supply input
- Backup amplifier input
- Four RJ45 connectors for connection to the Master matrix and subsequent
- Slave matrix
- 2 standard 19" rack units

# PA EV MCL1Z



Zone module for amplifier/line control to be inserted in the Master EV PROM5Z or Slave EV PROS8Z matrix.

# PA EV MCL2Z



Zone module for the control of the second line on the same zone amplifier, to insert into the EV PROM5Z Master matrix or EV PROS8Z Slave matrix.

# PA MDA250



- Modular Professional Power Unit 250W - 70/100V- 40hm
- Speaker short-circuit and overload protection circuit
- Clipping Dinamic control
- LED indicators
- Master Level control
- Low and high tone adjustment
- Balanced LINE input on Euroblock terminal
- Priority Balanced LINE input on Euroblock terminal with Gain
- Three outputs, one of which at constant 40hm impedance and two at Constant voltage (70/100V) on Euroblock terminal
- PA-HF Filter with rear switch
- Ground-Lift rear selector
- 230/117V~ 50/60Hz autoswitch power supply
- 24Vdc emergency power supply
- Dimensions (WxHxD): 116x53x250mm
- Weight: 2.3Kg
- Maximum 8 modules in a rack case MDA8C (3U rack 19")

# PA MDA500



- Modular Professional Power Unit 500W - 70/100V- 40hm
- Speaker short-circuit and overload protection circuit
- Clipping Dinamic control
- LED indicators
- Master Level control
- Low and high tone adjustment
- Balanced LINE input on Euroblock terminal
- Priority Balanced LINE input on Euroblock terminal with Gain
- Three outputs, one of which at constant 40hm impedance and two at Constant voltage (70/100V) on Euroblock terminal
- PA-HF Filter with rear switch
- Ground-Lift rear selector
- 230/117V~ 50/60Hz autoswitch power supply
- 24Vdc emergency power supply
- Dimensions (WxHxD): 116x53x250mm
- Weight: 2.4Kg
- Maximum 8 modules in a rack case MDA8C (3U rack 19")

# PA MDAC8



8 units rack case (3U rack 19") for MDA series.

# PA DBE01



Fully monitored desk call station according to **EN54-16**.  
 Software programmable "Talk" key, "Busy" and "System" LEDs, dynamic gooseneck microphone, automatic compressor, level adjustment trimmer  
 Wiring by Rj45 connector and CAT5 Cable.  
 Power supply from RJ45 cable or 24Vdc local adaptor.

# PA DBE06



Fully monitored desk call station according to **EN54-16**.  
 Software programmable capacitive selection keys, "Talk" and "Busy" Keys, "System" LEDs, dynamic gooseneck microphone, automatic compressor, level adjustment trimmer. Wiring by RJ45 connector and CAT5 Cable.  
 Wiring by RJ45 connector and CAT5 Cable.  
 Power supply from RJ45 cable or 24Vdc local adaptor.

# PA DBE108



Fully monitored desk call station according to **EN54-16**.  
 10 keys dial keyboard, "Talk" and "Clear" key, 3 Evac activation keys, touch screen quarter VGA TFT display, dynamic gooseneck microphone, DSP audio processing. All keys and functions are software programmable.  
 Wiring by Rj45 connector and CAT5 Cable.  
 Power supply from RJ45 cable or 24Vdc local adaptor.



CVS 1 | 7-pin | CAMERA 1 | RS45  
PROGRAM | PROGRAM | HDD

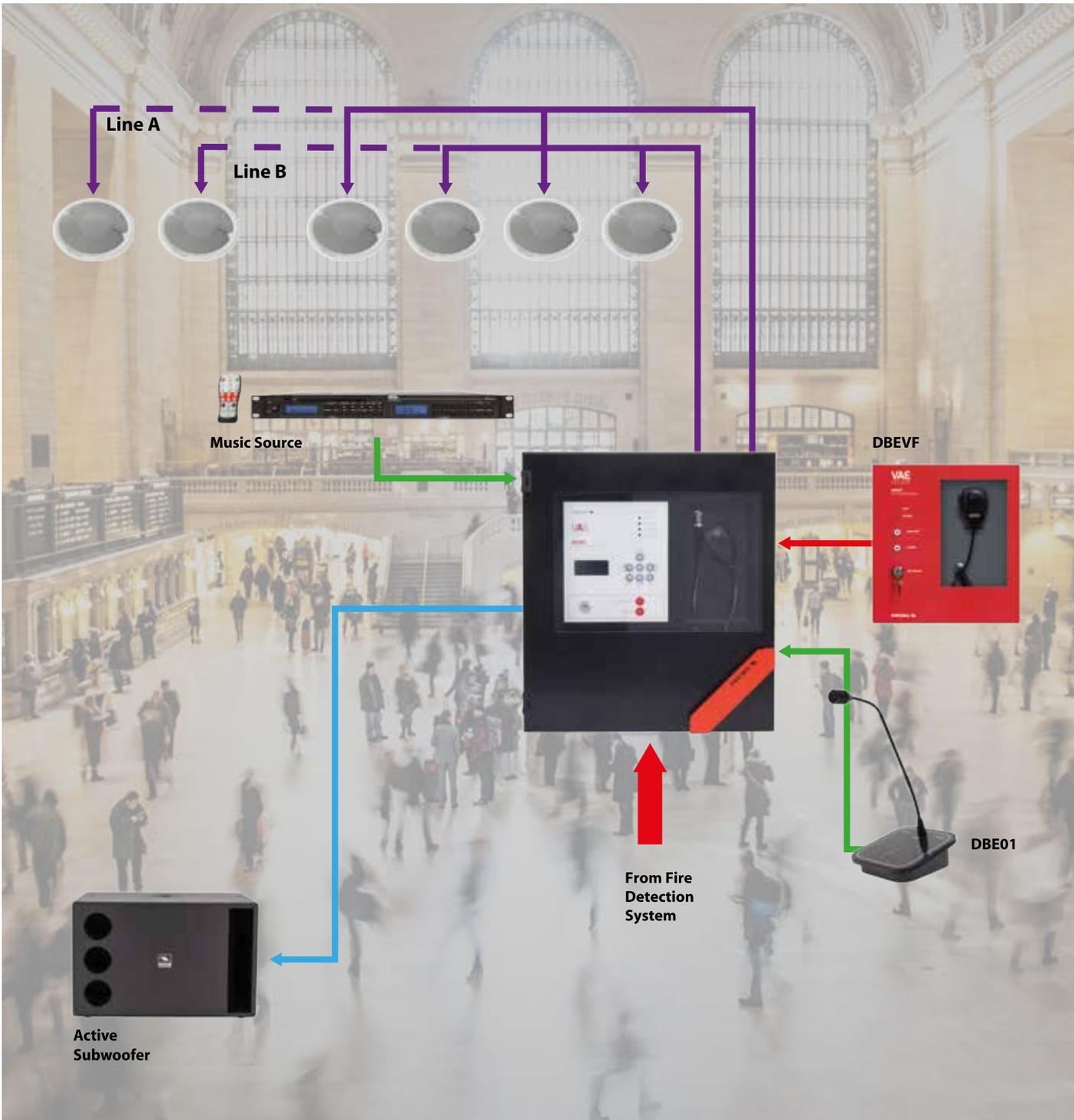
CVS | 7-pin | CAMERA 2 | RS45  
1 | 2 | 3 | 4 | 5 | 6

# AE300



Wall mounted All-In-One voice alarm system compliant with **EN54-16** with testing and charge circuit compliant with **EN54-4**.  
 Main and backup amplifier in class D "Pure Path"<sup>™</sup>.  
 300W @ 100V on redundant loudspeaker line (A + B).  
 The system does not require a line end resistor.  
 The system ensures full power performance even with backup power.  
 Processing circuit by DSP; balanced and isolated background music input, isolated microphone input with selectable 48Vdc phantom power supply and priority activation by contact; monitored input for remote emergency call stations; front panel fitted with monitor loudspeaker, monitored emergency PPT microphone, direct sending message keys, navigation keys, large display with LCD dot matrix.  
 Line output for active sub-woofer; audio messages stored on  $\mu$ SD 16 bit 48kHz; 8 general purpose messages with activation from dedicated input contacts or incorporated scheduler, 2 monitored contacts for emergency announcement activation.  
 4 12Vdc batteries 7.2Ah not included  
 Dimensions (WxHxD): 440x495x155mm



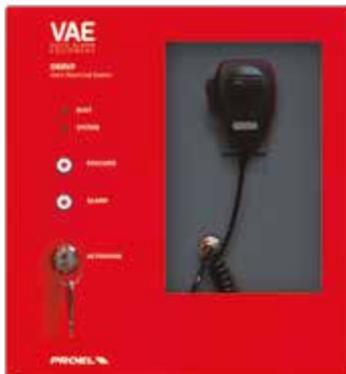


# PA DBE01



Fully monitored desk call station according to **EN54-16**.  
Software programmable "Talk" key, "Busy" and "System" LEDs, dynamic gooseneck microphone, automatic compressor, level adjustment trimmer  
Wiring by Rj45 connector and CAT5 Cable.

# PA DBEVF



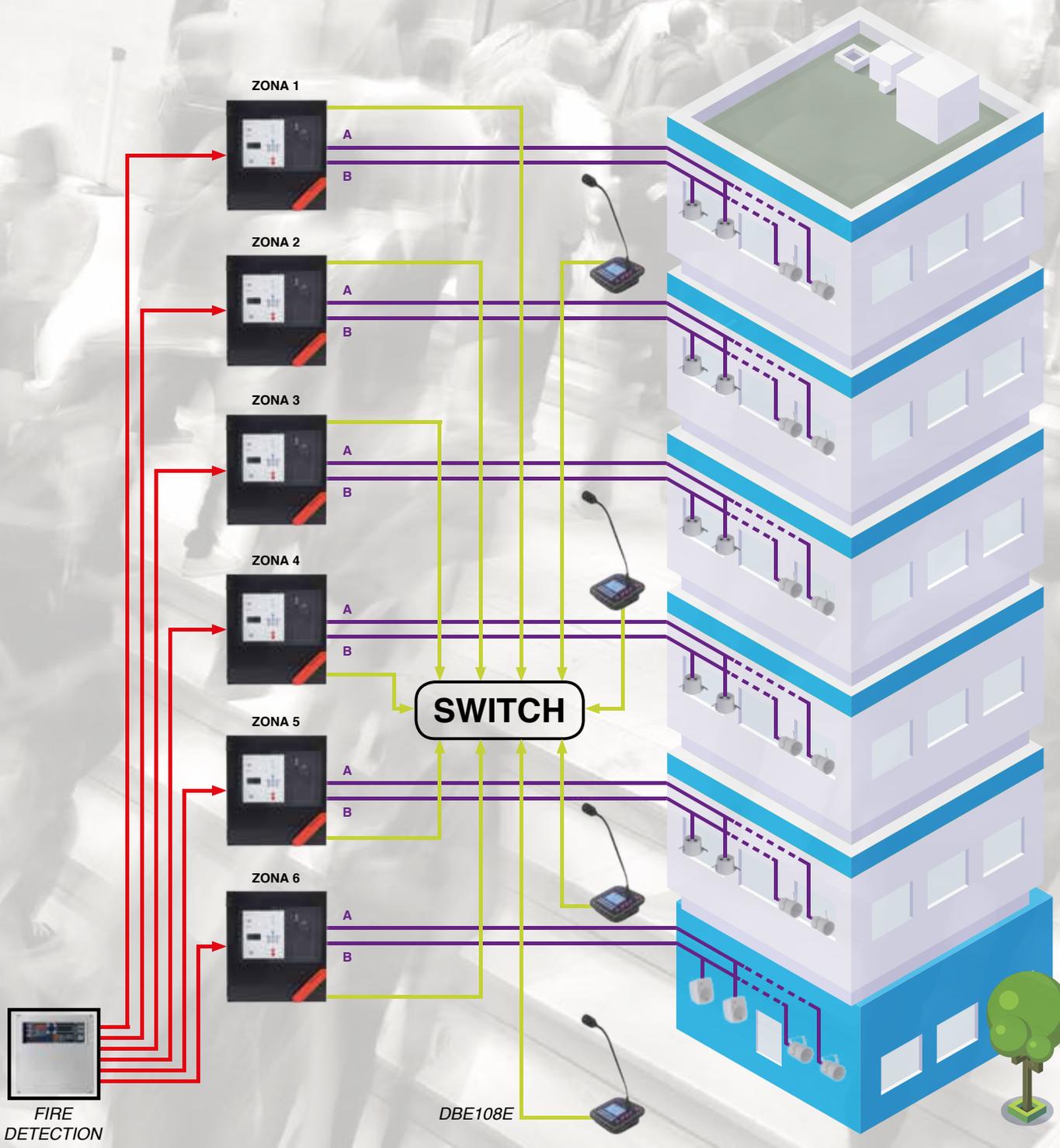
Fully monitored, wall-mount, red metal box, **EN54-16**.  
Firemen's call station with handheld PTT Microphone. Fully software programmable, with status LEDs. Access to the security and fire alarm features system is granted by a key-lock. "EVAC" and "ALARM" Remote Message Activation Button.  
Wiring by Rj45 connector and CAT5 Cable.  
Power supply from RJ45 cable or 24Vdc local adaptor.

# PA DBE108E



Fully monitored Ethernet desk call station according to **EN54-16**.  
Connects to networkable Proel Evac System.  
10 keys dial keyboard, "Talk" and "Clear" key, 3 Evac activation keys, touch screen quarter VGA TFT display, dynamic gooseneck microphone, DSP audio processing. All keys and functions are software programmable.  
Wiring by Rj45 connector and CAT5 Cable.  
Power supply from RJ45 cable or 24Vdc local adaptor.

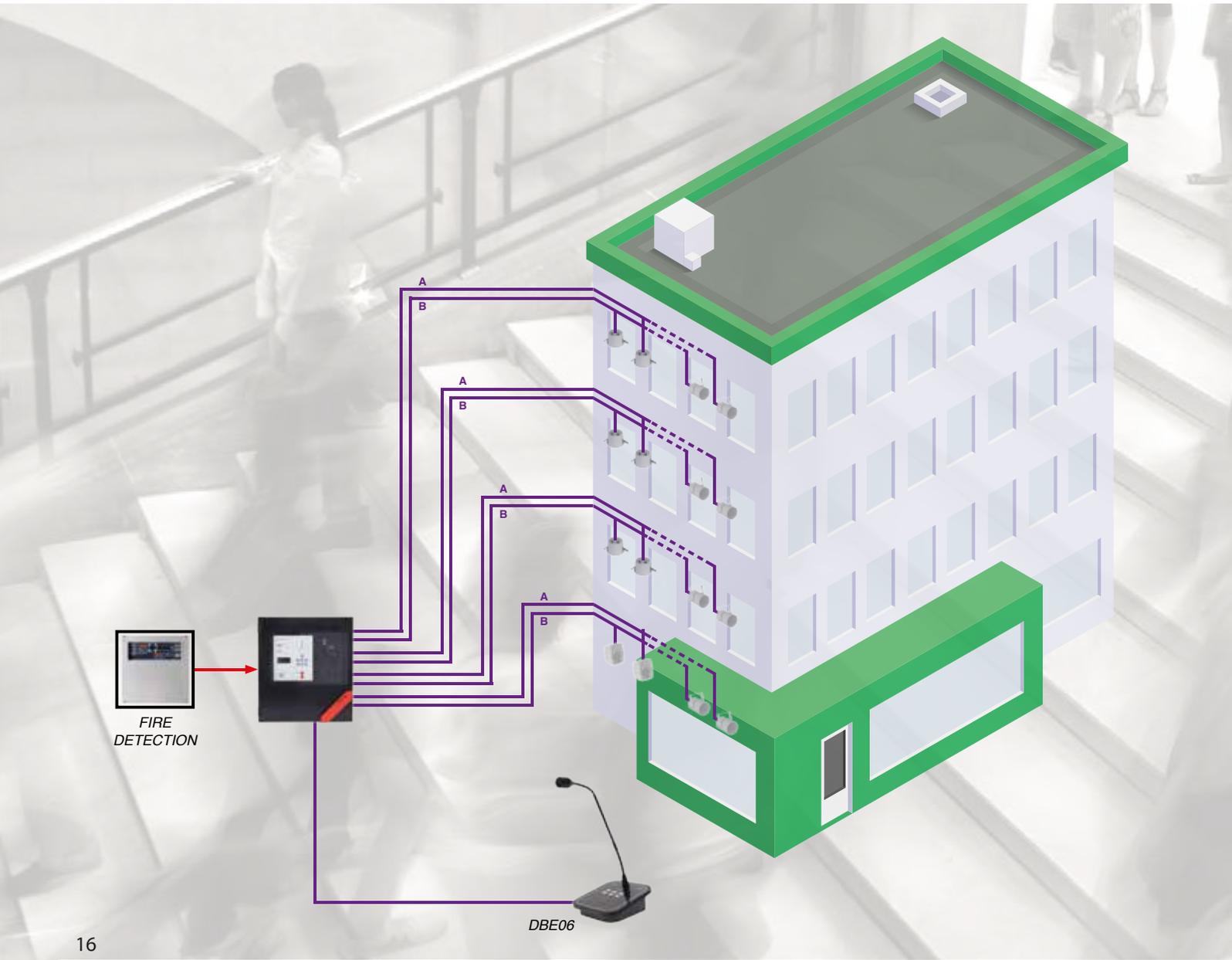
# NETWORK APPLICATION

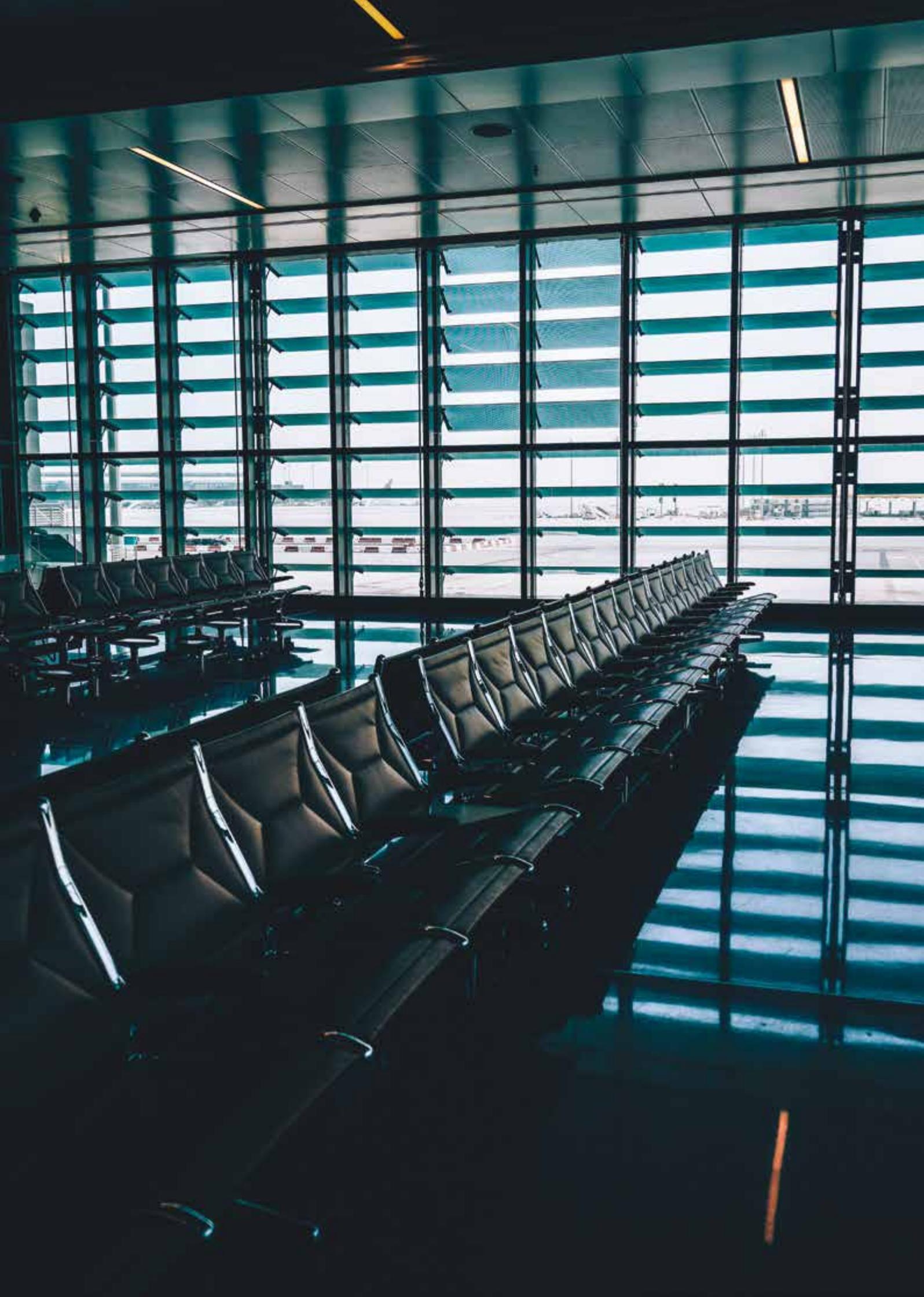


# AE604



Wall mounted All-In-One voice alarm system compliant with **EN54-16** with testing and charge circuit compliant with **EN54-4**.  
 4 Zones System on redundant loudspeaker line and back up Amplifier. Main and backup amplifier in class D "Pure Path"<sup>™</sup>.  
 300W + 300W (total power 600W) @ 100V on redundant loudspeaker line (A + B). The system does not require a line end resistor.  
 The system ensures full power performance even with backup power. Processing circuit by DSP; balanced and isolated background music input, isolated and balanced background music microphone input with selectable 48Vdc phantom power supply and priority activation by contact; monitored input for remote emergency call stations; front panel fitted with monitor loudspeaker, monitored emergency PPT microphone, direct sending message keys, navigation keys, large display with LCD dot matrix.  
 Line output for active sub-woofer; audio messages stored on  $\mu$ SD 16 bit 48kHz: 8 general purpose messages with activation from dedicated input contacts or incorporated scheduler, 8 monitored contacts for emergency announcement activation.  
 4 12Vdc batteries 18Ah not included.

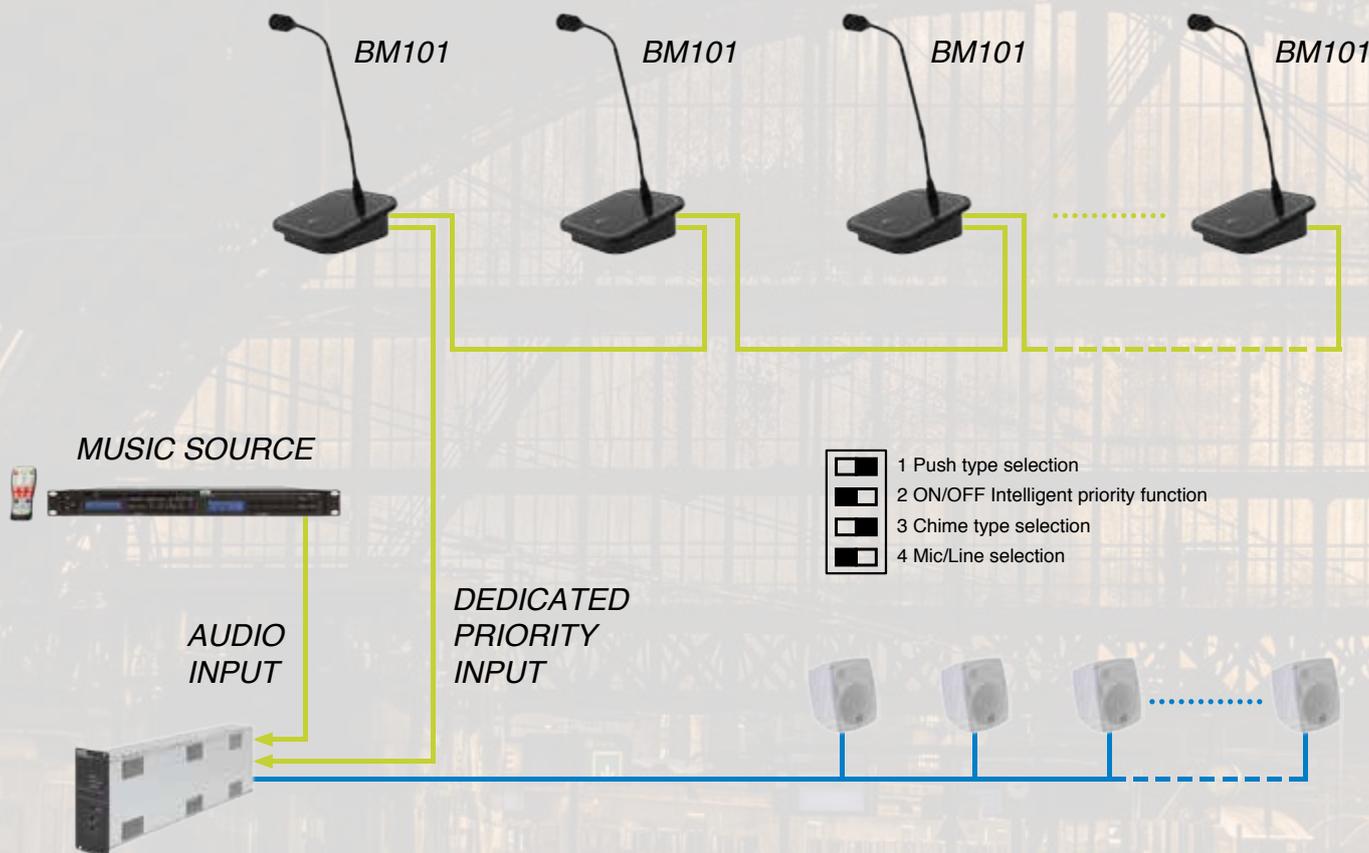




# PA BM101



- Table base with dynamic gooseneck microphone
- Two-colour LED to signal busy channel and Talk
- Integrated din-don
- MIC/LINE level output selectable by dip-switch
- Priority function over other bases connected in parallel on the same audio channel, selectable by dip-switch
- "Push to Talk" or "ON/OFF" configurable call key



# PA BM102

A red circular logo with the word "New" written in a white, cursive font.

General announcement call station with dynamic microphone, "Push to Talk" button and priority output contact (Normally Open).



# PA ZONE8



- 8-Zone Voice/Music management system
- 5 switched music inputs (Tape-CD-Tuner-AUX1-AUX2)
- Total level control of the call stations
- Music signal level control
- ON/OFF controls to activate music on the zones
- LED light of zone occupied by the microphone call
- Priority input for emergency alert microphone
- Command to activate two-tone siren according to DIN33404
- Line output for possible total recording of events
- 6 RJ45 inputs for CAT5 connection of the microphone stations (max 18 micro bases)
- Audio output on the 8 zones presettable at 100V or 0dB depending on the configuration used 24Vdc bypass command available for each zone for local volume attenuators
- 3 audio inputs with automatic activation (VOX) respectively for:
  - automatic/additional free input telephone calls/messages
  - 230 V~ - 24Vdc power supply for emergency
- ZONE8 uses 3 operating configurations:
  - A** With unique amplifier - Call in the relevant zone/Music present in the zones only with system in stand-by
  - B** With two amplifiers - Call in the relevant zone/Music always present even in the zones not concerned by the call
  - C** With eight or more amplifiers - Call in the relevant zone/Music always present in the zones not concerned by the call, large installation system

# PA ZONE8SLAVE



- 16-zone extension panel for ZONE8
- ON/OFF controls to activate music on the zones
- Occupied zone LED light
- Audio output on the 8 zones presettable at 100V or 0dB depending on the configuration used
- 24Vdc bypass command available for each zone for local volume attenuators
- 230V~ 50/60Hz - 24Vdc power supply for emergency

## PA BM01

---



Digital Microphone Base for general announcements.  
Makes the microphone call only in general mode.  
ALL key to engage the zones in general mode, TALK key to make the speakerphone announcements with the relative activation LED lights.

## PA BM04

---



Digital Microphone Base for 4-zone announcements.  
Makes the microphone call on the individual zones or in general mode.  
ALL key to engage the zones in general mode, TALK key to make the speakerphone announcements with relative activation LED lights.  
Additional four/eight/sixteen keys to select the microphone call on as many zones. The zone activation is highlighted by its LED.

## PA BM08

---



Digital Microphone Base for 8-zone announcements.  
Makes the microphone call on the individual zones or in general mode.  
ALL key to engage the zones in general mode, TALK key to make the speakerphone announcements with relative activation LED lights.  
Additional four/eight/sixteen keys to select the microphone call on as many zones. The zone activation is highlighted by its LED.

## PA BM16

---



Digital Microphone Base for 16-zone announcements.  
Makes the microphone call on the individual zones or in general mode.  
ALL key to engage the zones in general mode, TALK key to make the speakerphone announcements with relative activation LED lights.  
Additional four/eight/sixteen keys to select the microphone call on as many zones. The zone activation is highlighted by its LED.

# SC965P



- LNE SYSTEM Low Noise Emission
- System: full-range ceiling loudspeaker matrix element
- Frequency response: 80Hz-16kHz
- SPL MAX (Pmax @ 1m): 120dB
- Components: 9x 6.5" full range
- Impedance: 36Ω
- SPL (1W/m): 88.3dB
- Power handling (AES): 400W
- Power handling (programme): 800W
- H and V Coverage variable by number of elements used
- Weight: 16 kg
- Dimensions (WxHxD): 600x600x160mm

# DS112P



- LNE SYSTEM Low Noise Emission
- Two-way high directivity System MTM circular configuration
- Input power rating (continuous): 300W (8Ω)
- Input power rating (peak): 600W (8Ω)
- Impedance: 8Ω
- Frequency response: 110Hz-16kHz (-3dB), 80Hz-18kHz (-10dB)
- SPL MAX (Pmax @ 1m): 124dB
- Low frequencies: 12 x 3.5"
- High frequencies: 1 x 1" compression driver
- Coverage angle: <78°
- Colour: Standard RAL 9007
- Colour Custom: (RAL CODE) Minimum 20 pcs
- Weight: 9 kg
- Dimensions: Ø510-H208mm
- Protection rating: IP55

# DS112PT



- LNE SYSTEM Low Noise Emission
- Two-way high directivity System MTM circular configuration
- Input power rating (continuous): 300W (8Ω)
- Input power rating (peak): 600W (8Ω)
- Power Taps to 100V: 25/50/100W
- Impedance: 8Ω
- Frequency response: 110Hz-16kHz (-3dB), 80Hz-18kHz (-10dB)
- SPL MAX (Pmax @ 1m): 124dB
- Low frequencies: 12 x 3.5"
- High frequencies: 1 x 1" compression driver
- Coverage angle: <78°
- Colour: Standard RAL 9007
- Colour Custom: (RAL CODE) Minimum 20 pcs
- Weight: 9 kg
- Dimensions: Ø510-H208mm
- Protection rating: IP55

# DS110SP



- LNE SYSTEM Low Noise Emission
- Subwoofer
- Input power rating (continuous): 400W (8Ω)
- Input power rating (peak): 800W (8Ω)
- Impedance: 8Ω
- Frequency response: 45Hz-160Hz
- SPL MAX (Pmax @ 1m): 127dB
- Low Frequency Device: 10" woofer
- Colore : Standard RAL 9007
- Colour Custom: (RAL CODE) Minimum 20 pcs
- Dimensions: Ø510-H208mm
- Protection rating: IP55



# INSTALLATIONS



**GUCCI STORE - FLORENCE**  
ITALY



**THE 'T ZAND PARKING - BRUGES**  
BELGIUM



**OMAN AVENUE MALL - MUSCAT**  
SULTANTE OF OMAN



**MARINA MALL - ABU DHABI**  
UNITED ARAB EMIRATES



**BENETTON EXHIBITION CENTER - TREVISO**  
ITALY



**ZENICA STADIUM - ZENICA**  
BOSNIA ED ERZEGOVINA



**SOCCER STADIUM - PESCARA - ITALY**



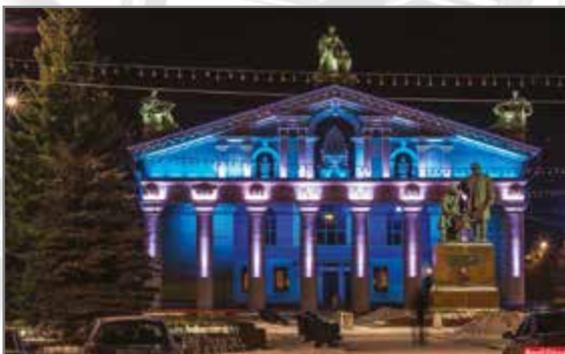
**ALA - TOO CLUB - BIŠKEK**  
KIRGHIZISTAN



**TRAINING CENTRE OF AJAX - AMSTERDAM**  
NETHERLANDS



**OLD FASHION CAFE - MILANO**  
ITALY



**TAGIL'S DRAMA THEATRE - NIZHNY**  
RUSSIA



**OLYMPIC RESIDENCE - LIMASSOL**  
CYPRUS



**TUCANO'S BEACH - PORTO S. GIORGIO**  
ITALY



**EXHIBITION CENTRE "FIERA JONICA**  
CORIGLIANO CALABRO - ITALY



**BIN ZAYED STADIUM - ABU DHABI**  
UNITED ARAB EMIRATES



**KARL MARX THEATRE - HAVANA**  
CUBA

# PROEL

## ITALY

Proel Lab Spa  
Acquaviva Picena

## UK

Proel International Ltd.  
London

## KOREA

Proel Korea Co. Ltd.  
Gyeonggi-Do

## MALAYSIA

Proel Malaysia Snd. Bhd.  
Petaling Jaya

## USA

Proel North America Inc.  
Los Angeles

## TUNISIE

Proel Tunisia Sarl  
Tunisi

## PROEL SPA

(Worldwide Headquarters)  
Via alla Ruenia, 37/43  
64027 Sant'Omero (TE) - ITALY  
Tel. +39 0861 81241  
Fax +39 0861 887862  
P.I. 00778590679  
N.Reg.AEE IT 08020000002762

[info@proel.com](mailto:info@proel.com)  
[www.proel.com](http://www.proel.com)

