TECNOVOX®

AGB

FUSION®

Hotel guest room management system with on line electronic lock

FEATURES

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GRMS WITH ONLINE ELECTRONIC LOCK

GUEST ROOM MANAGEMENT SYSTEM

WIRELESS **FUSION®** WIRELESS

ELECTRONIC LOCK

FUSION® is the perfect integration between **TECHOTEL TH3°** one of the most advanced Guest Room Management System (GRMS) made by **TECNOVOX®** and **Opera** Bit a very innovative Electronic Lock by AGB.
The deep collaboration between these two highly specialized and experienced Italian companies, has resulted in a system ideal for hotel, combining security and total control, maximizing operational efficiency.

THINK GREEN

FUSION®

THINK GREEN

Taking care of energy means saving the environment.

SAVE MONEY

Save money limiting energy consumption and reducing technical devices stress.

INCREASE SECURITY

Room and common areas access with highly innovative and secure On Line Electronic Lock, real time controlled.

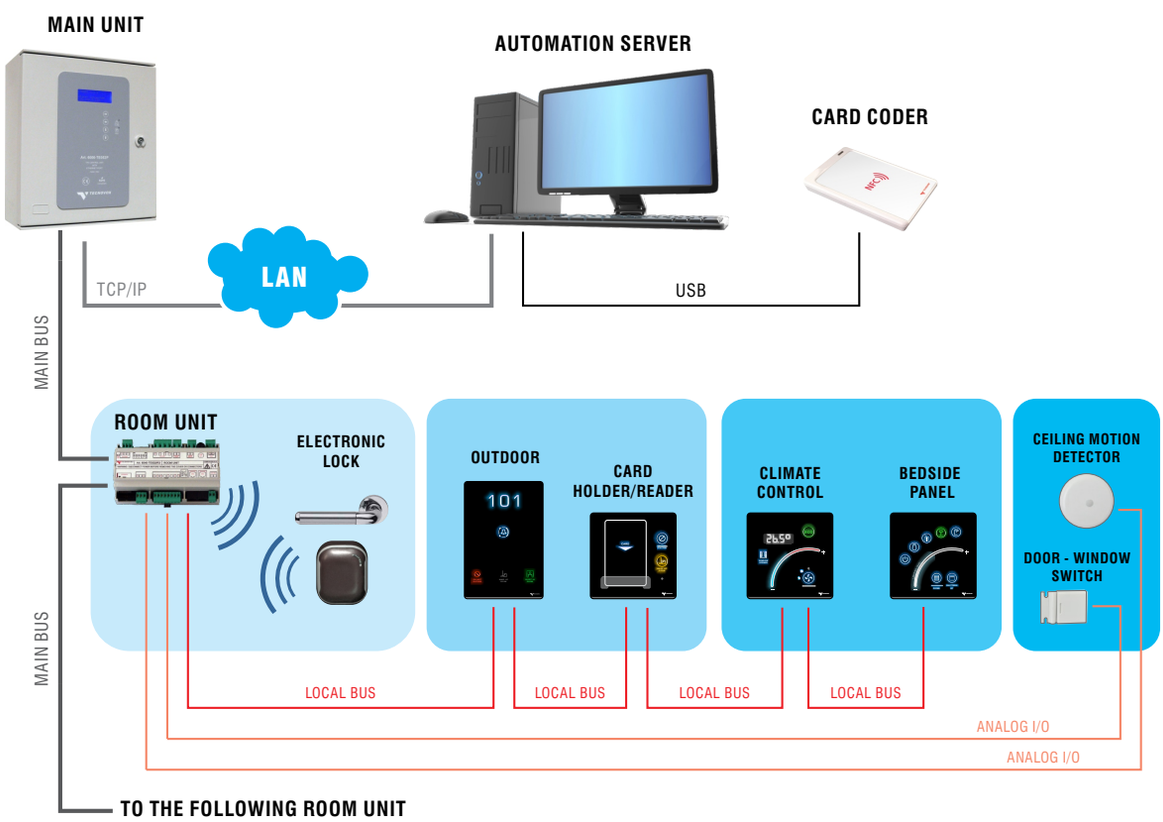
CONTROL

All functions of rooms and common areas real time controlled.

A change of 1 degree in the room saves 3% of the energy bill of the HVAC system.

STANDARD CONFIGURATIONS

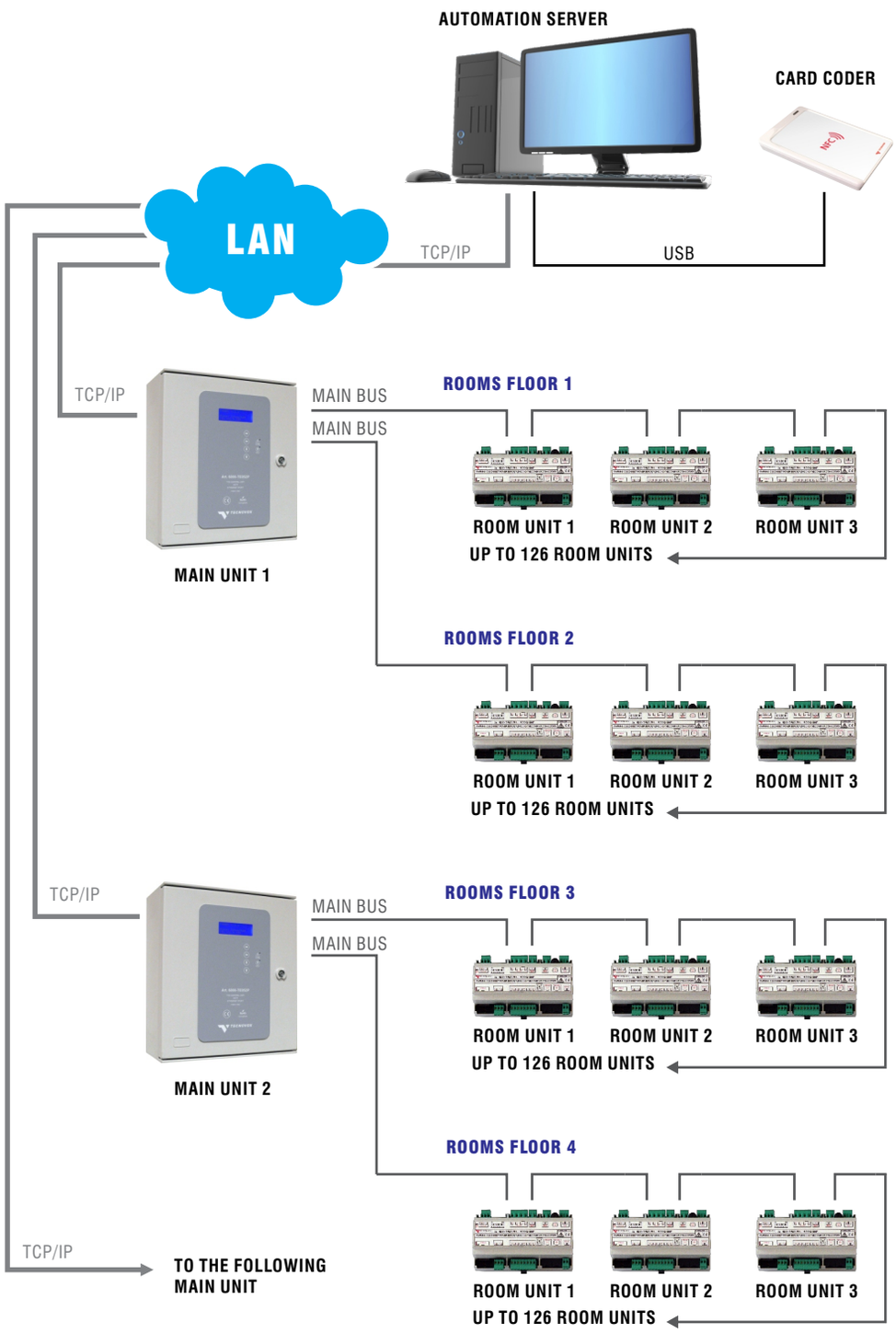
1. STARTER EDITION (SE)
2. LIGHT EDITION (LE)
3. FULL EDITION (FE)
4. FULL EDITION (FE) + MOTION SENSOR



DESCRIPTION

- The automation server will be connected to one or more Main Units via Ethernet
- Each Main Unit will be connected with its Room Unit via main bus
- Each Room Unit will be connected wireless to its electronic lock
- Each Room Unit will be connected with its room panels via local bus

GENERAL WIRING DIAGRAM



DESCRIPTION

- The Automation Server will be connected via Ethernet to one or more Main Units
- Each Main Unit will be connected via Daisy Chain bus with its Room Units
- Daisy Chain connections reduces greatly the cables and facilitates the installation

FEATURES CHART

FEATURES	STARTER EDITION (SE)	LIGHT EDITION (LE)	FULL EDITION (FE)
PMS & RMS INTERFACE	●	●	●
ALARM	●	●	●
ACCESS	●	●	●
GUEST PRESENCE DETECTION		●	●
ELECTRICITY CONTROL AND ENERGY SAVING		●	●
CORRIDOR SERVICE ANNUNCIATOR		●	●
ROOM SERVICE SIGNAL ACTIVATION		●	●
ROOM STATUS			●
TEMPERATURE CONTROL AND ENERGY SAVING			●

FEATURES DETAILS

PMS & BMS INTERFACE

- Authorized and certified interface with the most common PMS including Micros® , Fidelio® , Opera®
- Possibility of RMS interface via Modbus or TCP/IP (Custom made)

ALARMS

- Bathroom help alarm pull cord
- Bathroom flood detection
- Intrusion alarm

ACCESS

- Opening code, stored in the main room unit and wireless transferred to the electronic lock
- Using Mifare RFID card. NFC ready
- Security electronic lock with mechanical emergency key and magnetic latch
- Access report archive
- Room move without keycard change
- Keycard replacement for loss or theft with automatic cancellation of the previous
- Easy guest extended stay without keycard involvement
- Door half open control
- Low battery warning at workstations

GUEST PRESENCE DETECTION

- By intelligent card holder
- By any kind of motion detectors properly combined with door contact

ELECTRICITY CONTROL AND ENERGY SAVING

- Programmed welcome entry light or light scene
- Switching off electricity with unsold room or guest absent
- Scene lights control

CORRIDOR SERVICE ANNUNCIATOR

- Installed in the corridor aside the room entry door
- Including lighting signals: Don not disturb, Make up room, Guest presence, Call button

ROOM SERVICE SIGNAL ACTIVATION

- Lighting buttons included in the card holder: Do not disturb, Make up room, chime
- Lighting buttons included in the bedside panel: Do not disturb, Make up room
- Do not disturb function by the button located at the room side of the electronic lock

ROOM STATUS

- To be cleaned. Signal automatically set on occupied rooms
- Cleaning in progress
- Ready for inspection
- Room cleaned
- Room free
- Room occupied
- Room out of order
- Event report archives

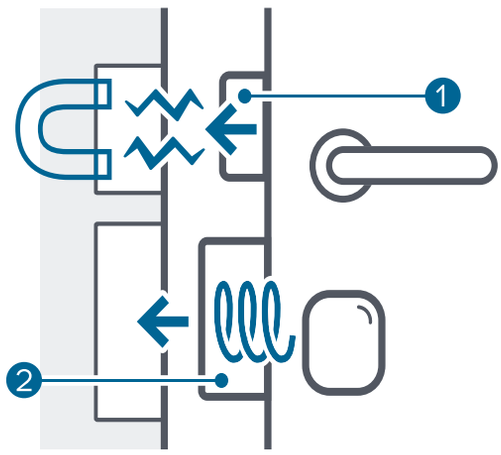
TEMPERATURE CONTROL AND ENERGY SAVING

- Summer / winter switching
- 2 or 4 pipes climate control
- Room real temperature indication on site and at workstations
- Basic temperature for unsold rooms automatically set
- Stand-by temperature set for occupied rooms but guest absent
- Comfor temperature set with manual adjustment (limited range) when guest is inside the room
- Fan coil local control or VRV/VRF systems interface
- Temperature time programming for rooms
- Temperature control and programming for common areas

ELECTRONIC HOTEL LOCK

A unique electronic lock for hotels designed by **AGB**, **Alban Giacomo Spa**, with magnetic movement, designed to blend with the internal door that creates new silence standard when door closes.

Twin lock, and automatic latch closing system, protects the security of your room. The magnetic latch ❶ comes out when the sash leans against the frame and the automatic bolt ❷ is activated ensuring the maximum antiburglar security.

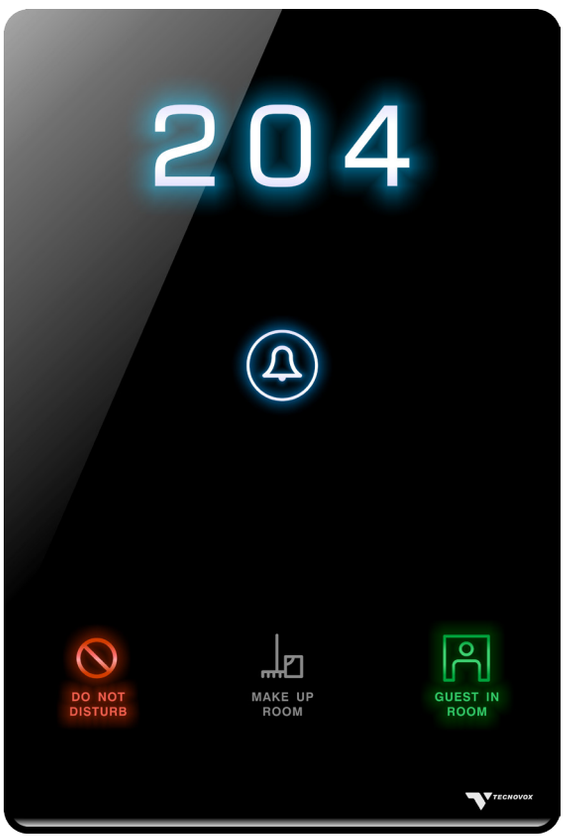


FEATURES:

- RFID electronic lock, NFC ready
- Advanced technology
- Wireless connected to Main Room Unit of the GRMS
- Magnetic automatic bolt ensuring the maximum security
- Emergency mechanical half cylinder
- Shockproof, antiburglar strength
- Antipanic function, unblocking the bolt and the latch simultaneously by internal handle

FEATURES:

- Innovative and minimal design, thanks to the small reader an the battery holder
- The personalisation of the cover finish let the designer creativity free
- The possibility to choose the handle gives more chance to the door designer: Opera Bit blends with every design style

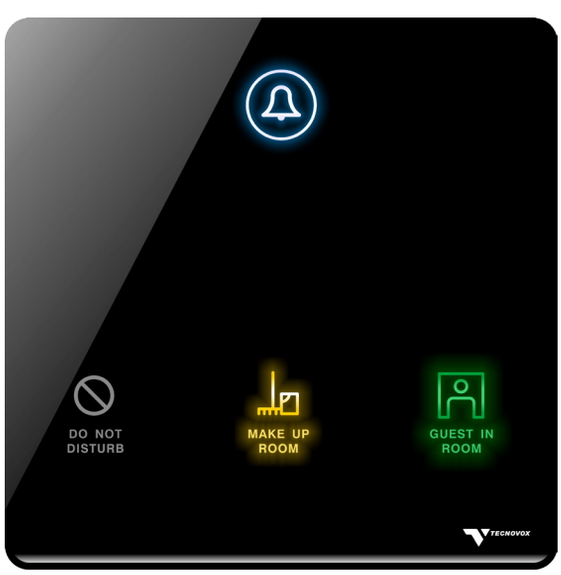


Corridor service panel with room number

- Backlighted with wave effect

Features:
- Doorbell button
- Room number with customized letter fonts
- Hotel logo (upon request)

Icons:
- Do Not Disturb
- Make Up Room
- Guest in room



Corridor service panel

Format:
- 114 x 114 mm

Features:
- Doorbell button

Icons:
- Do Not Disturb
- Make Up Room
- Guest in room

TOUCH PANELS

Card holder / reader

- Room card reader holder and reader for energy control and room status

Features:

- When a card is inserted, it enables the electricity and switches the temperature to the guest-in preset point. The room status is visualized through front or back office workstation.

Commands:

- Do Not Disturb
- Make Up room

Card reader

- Room card reader for room status report by the staff, approaching its card and pushing the related button

Features:

- The room status is visualized through front or back office workstation
- Including chime

Commands:

- Do Not Disturb
- Make Up room

TOUCH PANELS

Climate control panel

- Room temperature measurement and display

Features:
- Capacitive touch panel
- Window opened icon

Commands:
- Eco command
- Fan speed
- Temperature adjustment slide bow

Bedside panel

- To control up to 4 lights

Features:
- Capacitive touch panel for on/off or dimmed lights

Commands:
- Selection of 4 light with related icons
- Touch dimming slide bow
- All-off, in one touch
- Door-Opening (Or on request: Shutters down)
- Do Not Disturb (Or on request: Shutters up)

PRESENCE DETECTION SENSORS

Motion detector

Features:
- PIR analog wired motion detector - 360° sensitivity range
- Ceiling mounted

Magnetic switch

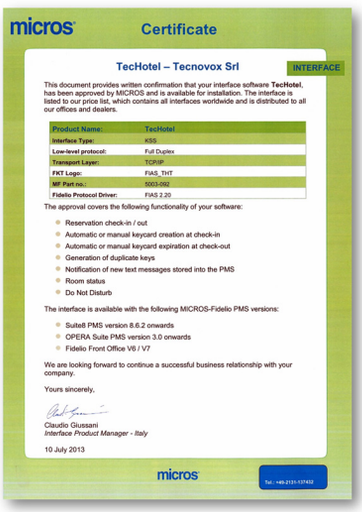
Features:
- Wired magnetic switch

SOFTWARE DEVICE

Card coder

Features:
- RFID Mifare card coder
- Connected via USB to workstation

CERTIFICATIONS



micros Certificate

TecHotel – Tecnovox Srl

INTERFACE

This document provides written confirmation that your interface software **TecHotel**, has been approved by MICROS and is available for installation. The interface is listed to our price list, which contains all interfaces worldwide and is distributed to all our offices and dealers.

Product Name:	TecHotel
Interface Type:	KSS
Low-level protocol:	Full Duplex
Transport Layer:	TCP/IP
FKT Logo:	FIAS_THT
MF Part no.:	5003-002
Fidelio Protocol Driver:	FIAS 2.20

The approval covers the following functionality of your software:

- Reservation check-in / out
- Automatic or manual keycard creation at check-in
- Automatic or manual keycard expiration at check-out
- Generation of duplicate keys
- Notification of new text messages stored into the PMS
- Room status
- Do Not Disturb

The interface is available with the following MICROS-Fidelio PMS versions:

- Suite8 PMS version 8.6.2 onwards
- OPERA Suite PMS version 3.0 onwards
- Fidelio Front Office V6 / V7

We are looking forward to continue a successful business relationship with your company.

Yours sincerely,

Claudio Giussani
Interface Product Manager - Italy

10 July 2013

micros

TecHotel

Micros Compatibility

Authorised and certified interface with Micros° PMS

Alessandria, 08 February 2009

TECNOVOX

DECLARATION OF CE CONFORMITY

TECNOVOX S.r.l. with registered office in Italy, Alessandria, p.za Basile, in the person of Giorgio Prevignano, its legal representative,

DECLARES

on the basis of tests performed by the authorized CE labs of Politecnico di Torino, as referred in the released document TR 07-07 LIE of 25-05-2007 and subsequently updates, that

all the products identified in the **"TH3 System Hotel Automation"** produced and distributed by TECNOVOX such as items: 6000/TE/TH35/16, 6080-TE010/1, 6040-TE002/R4, 6083-TE036/11, 6087-TE034/11, 6063-TE035/11, 6047-TE009/L, 5566-TE/1, 5081, 6088/TE2/UNIQ, 6088-TE1/QS/P

are constructed in conformity with the requirements of the following CE directives and have been tested successfully.

Reference's Norms: CEI EN 61000-6-3; CEI EN 61000-6-1; CEI EN 55022; CEI EN 61000-3-2; CEI EN 61000-4-3; CEI EN 61000-4-4; CEI EN 61000-4-5; CEI EN 61000-4-6; CEI EN 61000-4-8; CEI EN 61000-4-11; CEI EN 60204-1.

Giorgio Prevignano
Legal representative

TECNOVOX s.r.l.

TECNOVOX Srl

CE Conformity

PIV Prüfinstitut Schlosser und Beschläge Velbert
Wallmahe 41 – D 42551 Velbert
Institutsleitung: Oliver Troske, Dipl.-Ing. (FH)
Tel 0049-(0)2051-9506 5
Fax 0049-(0)2051-9506 69
Mail: piv.velbert@t-online.de

CE 1309

Zertifikat der Leistungsbeständigkeit

1309 - CPR - 0336

In Übereinstimmung mit der EU-Verordnung Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt

Opera Bit
B6001170XX, B6001270XX
B6011170XX, B6011270XX
B6001570XX, B6001670XX
B6011570XX, B6011670XX

auf den Markt gebracht unter dem Namen oder der Handelsmarke von

Alban Giacomo SpA
Via De Gasperi 75
I-36060 Romano d'Ezzelino (VI)

und produziert in der Produktionsstätte

I-36060 Romano d'Ezzelino (VI)
Via De Gasperi 75

Dieses Zertifikat bescheinigt, dass alle Bestimmungen zur Bewertung und Überprüfung der Leistungsbeständigkeit laut der Beschreibung in Anhang ZA der Norm

EN 14846:2008

im Rahmen des Systems 1 für die Leistung laut den Angaben in diesem Zertifikat angewendet werden, und dass

die Leistung des Bauprodukts als beständig bleibend bewertet wird.

Produkt Klassifizierungsschlüssel

1	2	3	4	5	6	7	8	9
3	X	8	D	0	J	2	1	1

Dieses Zertifikat wurde erstmals am 08. Juli 2016 ausgestellt und bleibt gültig, bis entweder die harmonisierte Norm, das Bauprodukt, das System zur Bewertung und Überprüfung der Leistungsbeständigkeit oder die Produktionsbedingungen im Werk wesentlich verändert werden, oder bis das Zertifikat von der benannten Zertifizierungsstelle ausgesetzt oder zurückgenommen wird.

D-Velbert, 08. Juli 2016

Stempel Zertifizierungsstelle

Oliver Troske, Dipl.-Ing. (FH)
Leiter der Zertifizierungsstelle

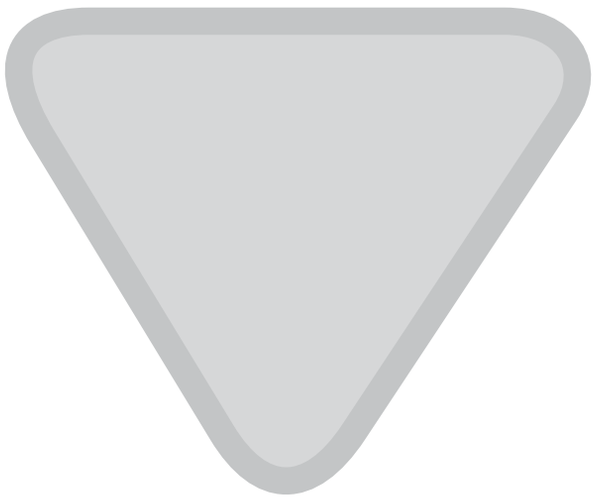
Dieses Zertifikat hat insgesamt 1 Seite.

Alban Giacomo Spa

CE Conformity

In conformity with:
EN 14846:2008

Product classification:
3X8D0J211



TECNOVOX®

Head Office: Piazza Basile 46 - 15121 Alessandria - ITALY
Legal Office: Via Ruffini 2/a - 00195 Roma - ITALY
EMEA Sales Office: Piazzale Brescia 6 - 20149 Milano - ITALY
Tel. +39 0131 445036 - Fax +39 0131 264737
www.tecnovox.it - info@tecnovox.it

TECNOVOX GHS - DMCC
GLOBAL HOSPITALITY SOLUTIONS
Jumeirah Lakes Towers - Unit 1201 at Fortune Tower - Dubai - U.A.E.
Tel. +971 56 221 1617
www.tecnovox.it - info@tecnovoxinternational.com

AGB
Alban Giacomo spa
Via A. De Gasperi 75,
36060 Romano d'Ezzelino (VI) - Italy
Tel. +39 0424 832832
www.agb.it - info@agb.it

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