



Muassasah Mwad AlTshyd Liltijarah: Liltijarah: Your Premier MEP, HVAC, Low Current, Current, Innovative and Automation Automation Solutions Partner.

Welcome to Muassasah Mwad AlTshyd, Saudi Arabia's leading supplier of high-quality MEP, HVAC, Low Current, innovative and Automation solutions provider. We are committed to delivering excellence, innovation, and customer satisfaction while upholding the highest standards of safety and sustainability.

In this presentation, we'll explore our comprehensive range of products, our partnerships with world-class brands, and our dedication to contributing to the Kingdom's Vision 2030 through localized procurement and ethical practices.

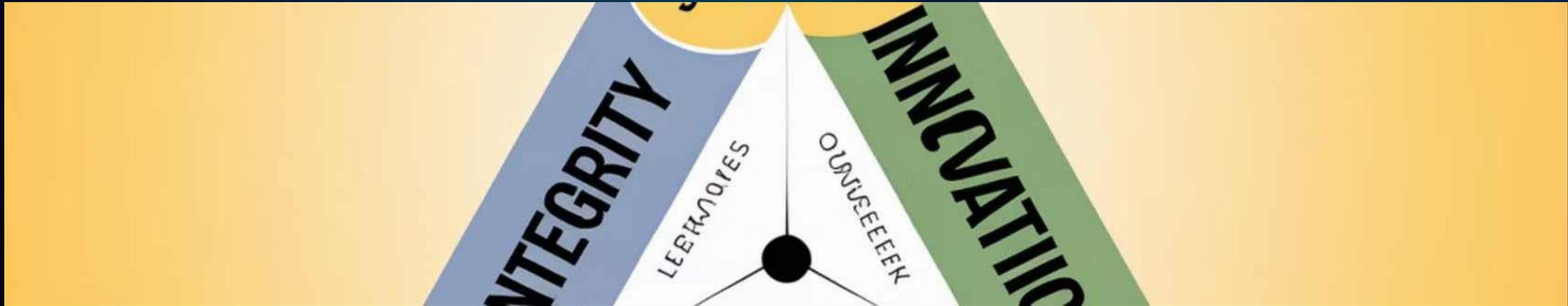
Our Vision and Mission

Vision

To be the leading provider of high-quality MEP, HVAC, Low Current and Automation, fostering innovation and customer satisfaction while upholding the highest standards of safety and sustainability.

Mission

To deliver top-notch technical solutions through collaboration with world-class international and local partners, empowering our clients with reliable, innovative, and cost-effective solutions. We strive to contribute to the Kingdom's Vision 2030 through localized procurement and ethical practices.

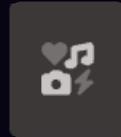


Our Core Values



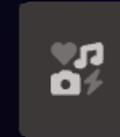
Customer Satisfaction

Our top priority is exceeding client expectations through superior products and service.



Integrity & Ethics

We adhere to the highest ethical standards in all our operations and partnerships.



Innovation

We continuously seek innovative approaches to meet evolving market demands and technological advancements.

Global Partnerships and Engineering Solutions. Solutions.

Construction Material Establishment collaborates with leading global manufacturers to provide comprehensive solutions for the Saudi construction industry.

Our network of partners includes renowned companies such as Honeywell, Johnson Controls-FX, DEOS-AG, Hochiki, SOLT, Axioma, Kampstrup, Axis, Hikvision, Ravel, Bosch, Legrand and Vivisomaled for complete lighting solutions.

Products and Services Offerings

- ❖ Automation Control Products.
- ❖ Security & Communication Systems.
- ❖ Fire Alarm System Solutions
- ❖ Guest Room Management System.
- ❖ Audio-Video Intercom
- ❖ Metering Solutions.
- ❖ Cables Solution.
- ❖ Wireless Solutions.
- ❖ Bollard & Barriers.
- ❖ Lighting Solutions.
- ❖ Local Collaboration.

❖ Automation Control Products

Johnson Controls-FX System: Leading BAS

1 Occupant-Centric

Prioritizes comfort, safety, security, and productivity.

2 Enhanced Control

Superior system management capabilities.

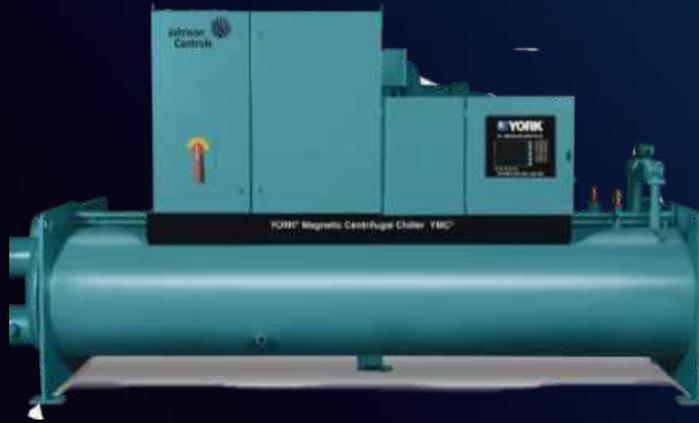
3 Accessible Information

Easy access to crucial building data.

Learn more about our Niagara Tridium Platform, a leader in building automation.



Levels of HVAC Control



Chiller



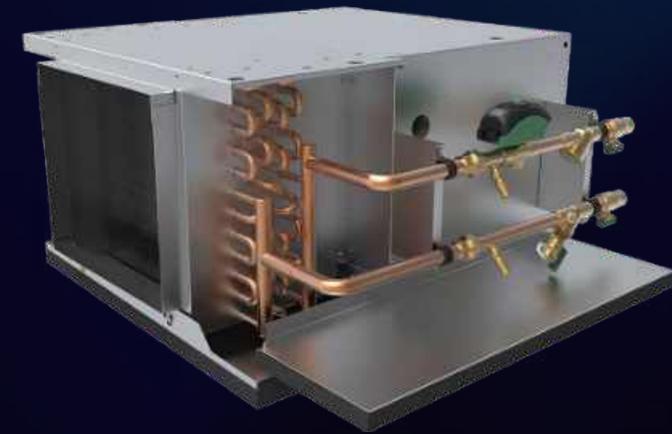
Pump



Air Handling Unit



Facility Explorer



Fan Coil Unit



Energy Efficiency



Boiler



Fan



Variable Air Volume



Security

Generation

Distribution

Consumption

Building Management System

Facility Explorer / CxM Controllers

Controllers

F4-CGE09090-0	IP	
[7UI, 4UO, 3DO, 2AO, 2DI]		
F4-CGE04060-0	IP	
[3UI, 4UO, 2DO, 1DI]		
F4-CGM09090-0	MSTP	
[7UI, 4UO, 3DO, 2AO, 2DI]		
F4-CGM04060-0	MSTP	
[3UI, 4UO, 2DO, 1DI]		

Expansion Modules

F4-XPM04060-0	SA Bus	
[3UI, 4UO, 2DO, 1DI]		
F4-XPM18000-0	SA Bus	
[18DI]		

Network Sensors

NSA 7000	SA Bus	
[LCD][T][RH][FAN]		
NS 8000	SA Bus	
[T][RH][CO2]		
NS 8000	SA Bus	
[Warmer/Cooler][T][RH][CO2]		
NS 8000	SA Bus	
[Segment][T][RH][CO2][FAN]		
NS 8000	SA Bus	
[Touch][T][RH][CO2][FAN]		

MSTP Cable [22 AWG, 3 wire twisted Shielded cable][Max length 1,200m for Serial topology, or 450m for star topology][Max 50 Devices]

IP Cable [24 AWG, 4 X 2 Pair][Max length 90m][1 Device]

SA Bus Cable [22 AWG, 4 wire twisted Shielded cable][Max. 350m][10 Devices]

VAV – Variable Air Volume



Free Programmable



Free Programmable

Room Unit

Controller

||||| **NS 8000** SA Bus

▶ [Touch] [Segment] [W/C] [T] [RH]
[CO2]

||||| **F4-CVM03050-0** MSTP

▶ [3UI, 2UO, 3DO]

||||| **NSA 7000** SA Bus

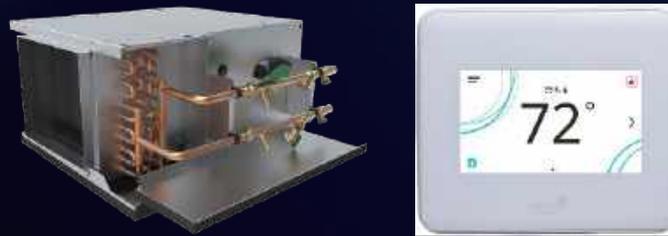
▶ [LCD] [T] [RH] [CO2]

||||| **F4-CVE03050-0** IP

▶ [3UI, 2UO, 3DO]

Controller & Room Unit

FCU – Fan Coil Unit Solutions



Room Sensor

RS-xxxx-xxxx N/A
[LCD] [T] [RH] [Fan]

Thermostat

T9800-TF20-1JS0 MSTP
[1UI, 5DO, 1DI]

T9600-TF20-1JS0 RTU
[1UI, 5DO, 1DI]

T9200-TF20-1JS0 N/A
[5DO, 1DI]

Terminal Unit

TUC0311-2RY MSTP
[4UI, 6DO, 3AO, 4DI]

TEC36x2-1x-000 MSTP
[4UI, 6DO, 3AO, 4DI]

TEC33x2-1x-000 N/A
[4UI, 6DO, 3AO, 4DI]

Terminal Unit & Room Sensor

Thermostat

FX Advanced Display



FAD0351-0

MSTP

[3.5 Inch][White or Black Frame]



TAD0471-0

MSTP or IP

[4.3 Inch][Black Frame]



TAD0701-0

MSTP or IP

[7 Inch][Black Frame]



TAD1001-0

MSTP or IP

[10 Inch][Black Frame]

Field Advanced Display

Touch Advanced Display

Field Devices



Sensors

Reading



Temperature



Humidity



Air Quality CO2



Pressure

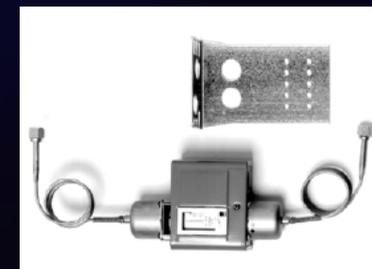
Indication



Water Flow & Level



Air DPS



Liquid DPS



Smoke Detector

Air Flow Measuring Station



Sizes Width [8" up to 120"], Height [8" up to 120"]
Readings [CFM] [Temperature]
Communication BACnet® and analog output standard
Display [Built-in Display] [Remote Display]
Configuration [Built-in buttons for easy configuration]
Sensing Probes [Airfoil shaped anodized aluminum]
Pressure Drop [Lower pressure drop and greater resistance to Oxidation]
Sensing Points [Up to 128 accurate air flow measurements]
Power Consumption has the lowest power consumption.



Damper Actuators



M91xx Series	M92xx Series	M93xx Series	S92xx Series
Non-Spring Return	Spring Return	Non-Spring Return	Spring Return
2, 4, 8, 16, 24 Nm	3, 8, 10, 20 Nm	10 Nm	8 Nm

Damper Actuators Continued



AFBUPxx Series

Spring Return

5, 8 Nm



LMB24xx Series

Spring Return

5, 8, 10 Nm



FSNFxx Series

Non-Spring Return

8 Nm

Valves & Actuators



Ball Valves

½ - 6 In

2 Ports or 3 Ports



Globe Valves

½ - 6 In

2 Ports or 3 Ports



Butterfly Valves

2 - 20 In

2 Ports



PICV Valves

½ - 6 In

2 Ports



Zone Valves

½ - 1 In

2 Ports or 3 Ports

Room Pressure Monitor



Features

Parameters [Pressure][Temperature][Humidity][Air Flow][Air Changes][CO2]

Number of Room Four Rooms

Protocols BACnet MS/TP communication

Display [5"][High Definition, 720 pixels by 1280 pixels]

Touch Screen Display works with rubber, nitrile and latex gloves

Non-volatile memory Saves user settings in case of a power outage

Password protection Two access levels to prevent unauthorized access

Global Release Offers a user interface that is translated to 17 languages

Alarms Visual and audible alarm for pressure

Room Pressure Controller



Features

Parameters [Pressure][Temperature][Humidity][Air Flow][Air Changes][CO2]

Number of Room Four Rooms

Connectivity 18 available Input/Output (I/O) resources.

Protocols BACnet MS/TP communication and N2

Display [5"] [High Definition, 720 pixels by 1280 pixels]

Energy savings Unoccupied mode reduces air and temperature changes

Touch Screen Display works with rubber, nitrile and latex gloves

Password protection Two access levels to prevent unauthorized access

Global Release Offers a user interface that is translated to 17 languages

Alarms Visual and audible alarm for pressure

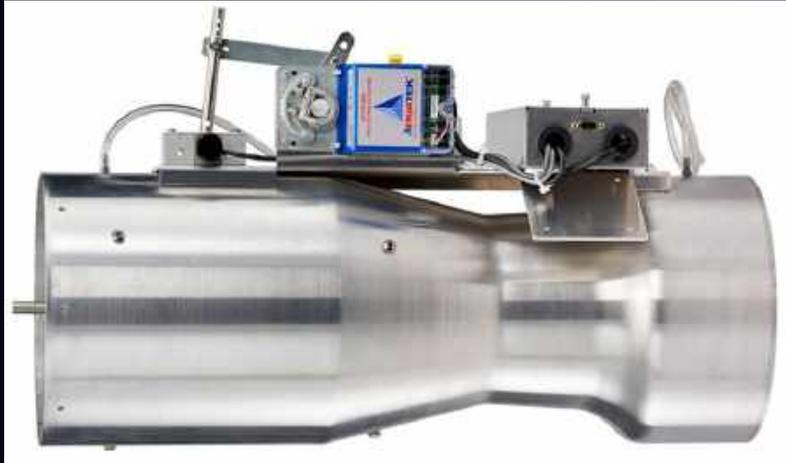
Room Pressure Controller



Features

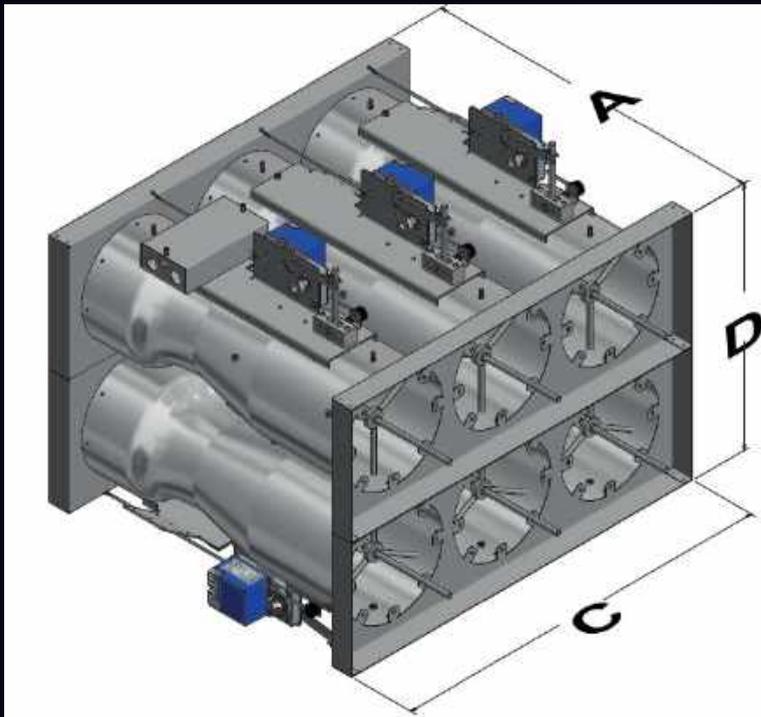
- Number of devices**
Up to four room pressure controllers
- Alarm**
Audible alarm and patented Safety Halo visual alarm
- Critical Environment Design**
Complies with [ANSI][ASHRAE][US Centers for Disease Control and Prevention (CDC)]
[United States Pharmacopeia (USP)]
- Easy-to-read display**
Full color LCD touchscreen
- Mounting**
Stainless steel thin flush mount or plastic surface mount
- Password protection**
Four access levels to prevent unauthorized access

Room Pressure Controller

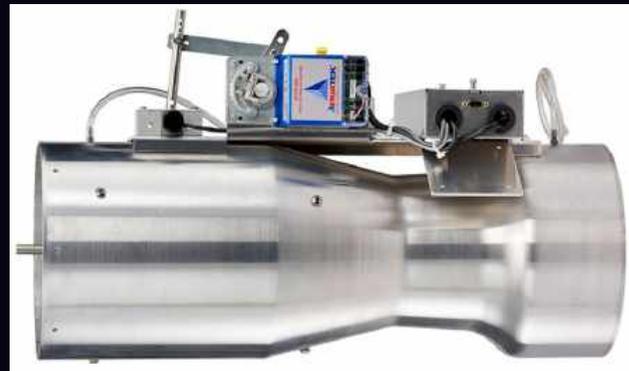
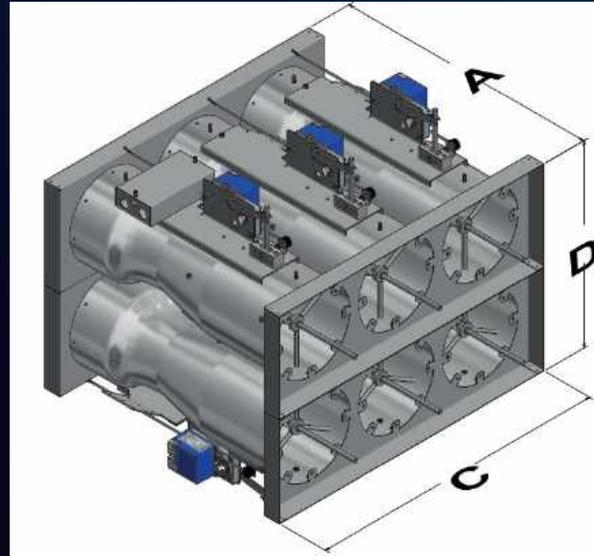


Features

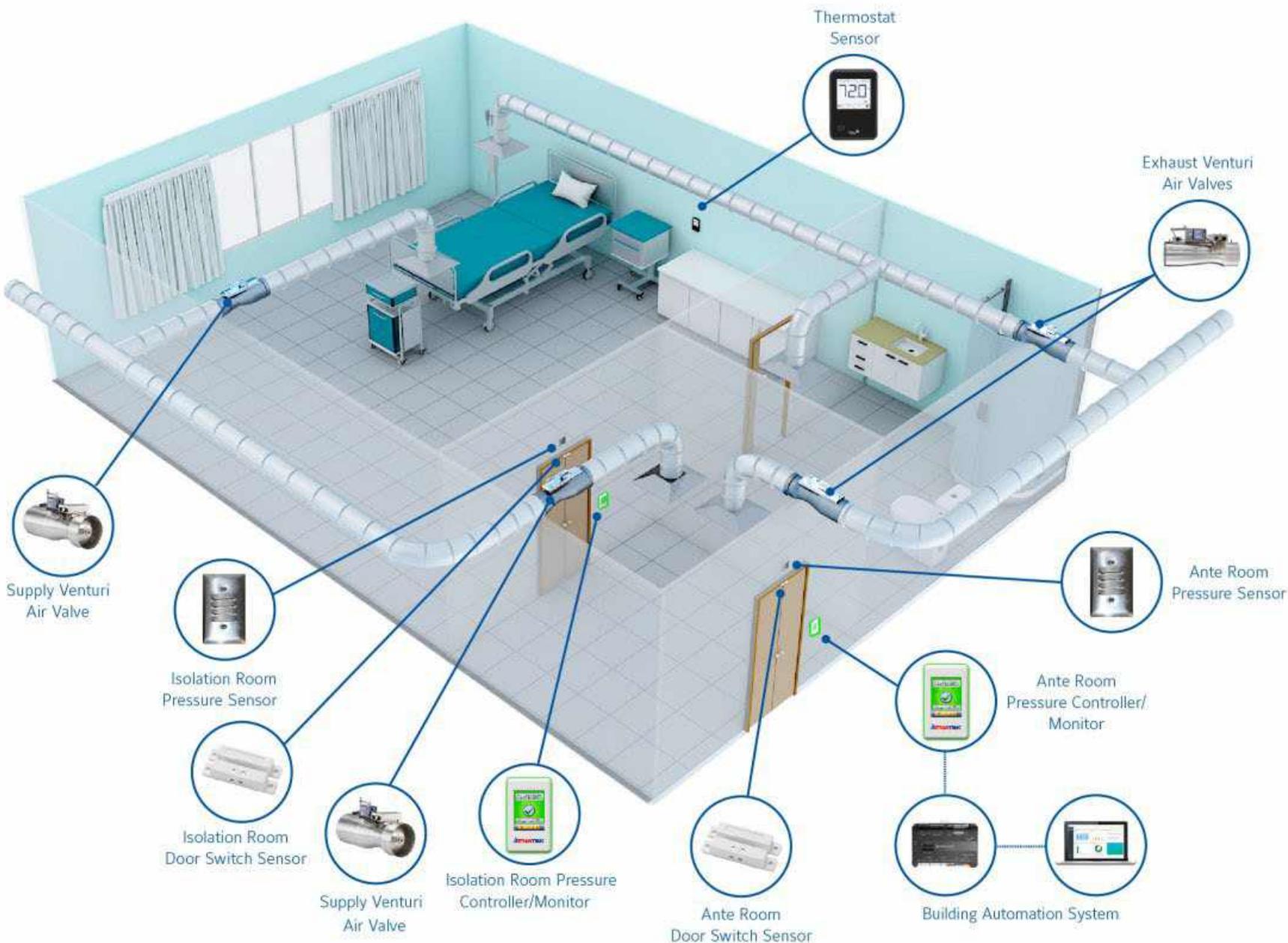
- **Ganged** [Not ganged][Dual][Triple][Quad]
- **Size** [08][10][12][14]
- **Material** [Aluminum][Heresite][SS316]
- **Insulation** [No insulation][Insulated]
- **Actuator** [Constant volume][Fast acting]
- **Type** [Partially closed][Full shut-off]
- **Airflow** [Horizontal][Upflow][Downflow]
- **Pressure** Low Pressure 0.075 kPa to 0.75kPa



Critical Environment



Critical Environment



Room Pressure Monitor



Room Pressure Control



Central Monitoring Station

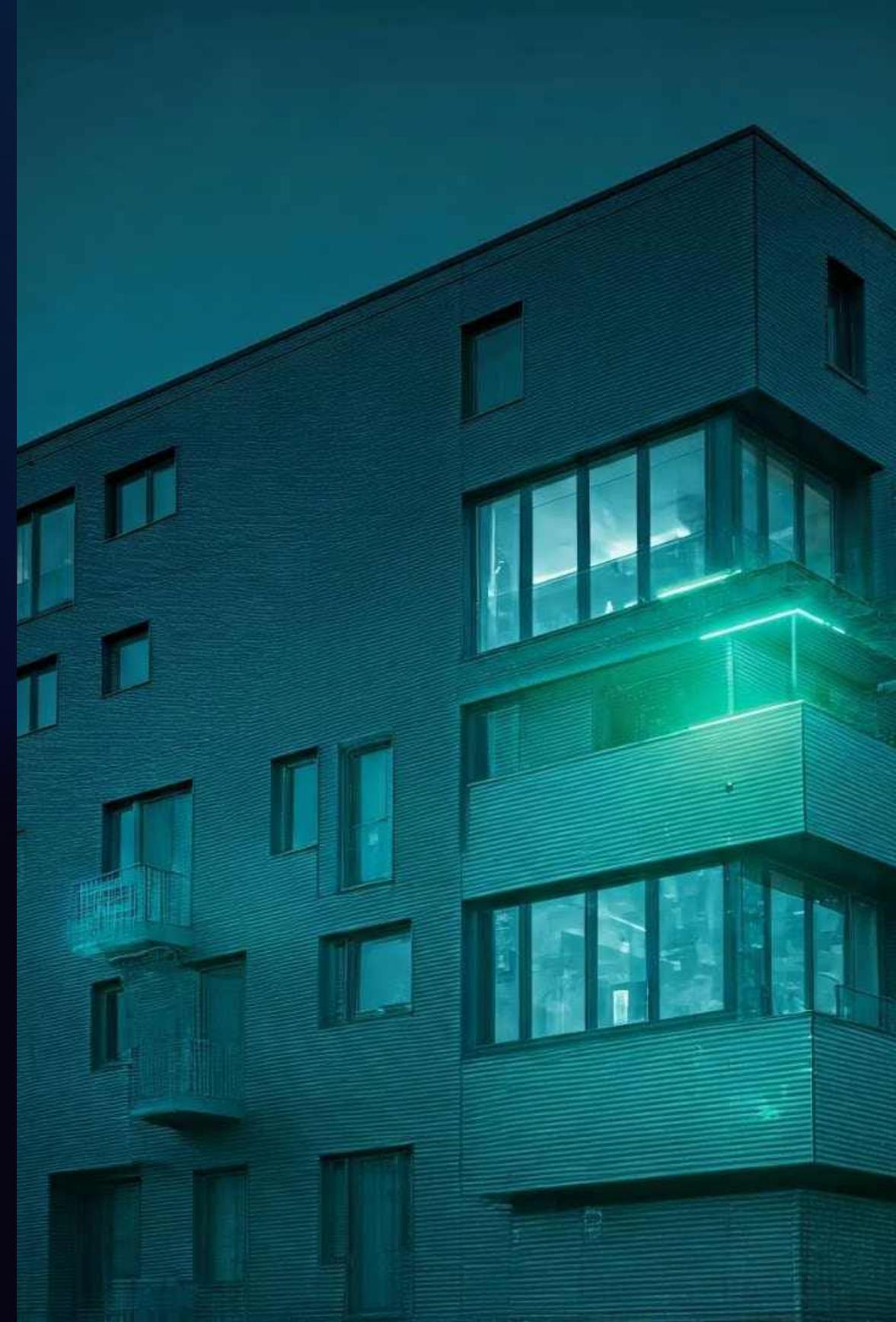


Air Venturi Valves

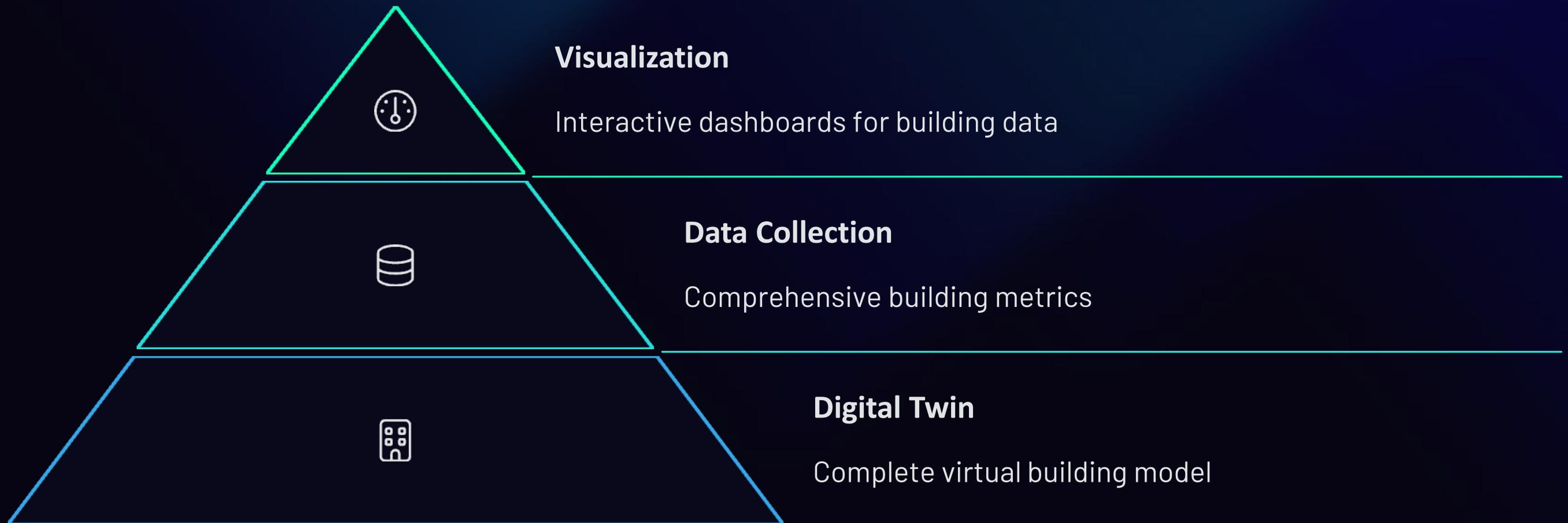


Building Automation Product Product Portfolio

Discover our extensive product portfolio for building automation. From BACnet/SC controllers to B-AWS certified systems, we offer the right solutions for your projects.



IoT Platform: pro.Building Suite





Building Management: OPENweb

B-AWS Certified

Industry-standard BACnet building control system for reliable operations.

Continuous Monitoring

Keep an eye on your building technology systems at all times.

Cloud Availability

Access your building management system from anywhere with enhanced features.

Connectors & Controllers

Connectors

Bridge classic automation with cloud applications and IoT platforms.

Enable central monitoring across diverse systems.

DDC Controllers

Options from low-cost compact to advanced BACnet/SC controllers.

Optimal automation stations for any project requirement.



IO Modules & Operating Devices

Devices



IO Modules

Optimal extensions for DDC controllers with wide-ranging options.



Room Control Units

Solutions for hotel guests with intuitive interfaces.



System Control Units

Control cabinet door solutions for facility managers.

Sensors & Measurement

Thermostats

Precise temperature control for optimal comfort.



Energy Monitoring

Make energy-saving potential visible.



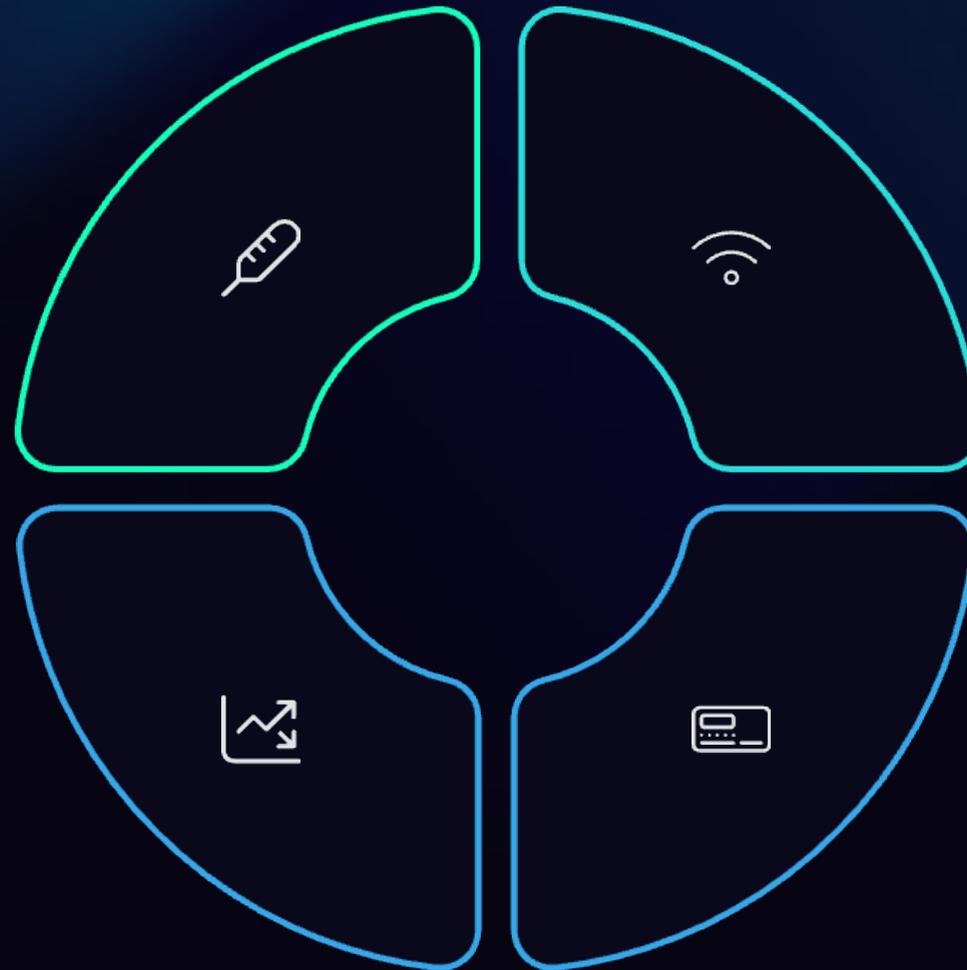
LoRaWAN Sensors

Ideal for post-digitization of existing buildings.



Valves & Drives

Various actuators and valves for complete automation.



DEOS Drives & Valves for Building Automation

DEOS actuators and valves are built for durability and reliable operation in demanding environments. Our diverse product portfolio suits various applications in both new construction and modernization projects.





Product Portfolio Overview



Valve Options

Flange valves with cast iron body in DN 15-150. Threaded valves with gunmetal body in DN 15-50.



Actuator Types

Linear, rotary, and damper actuators with CAN bus. Small thermoelectric actuators for heating systems.



Control Solutions

Control ball valves for water circuits. 6-way characterized control valves for heating/cooling systems.



Safety Features

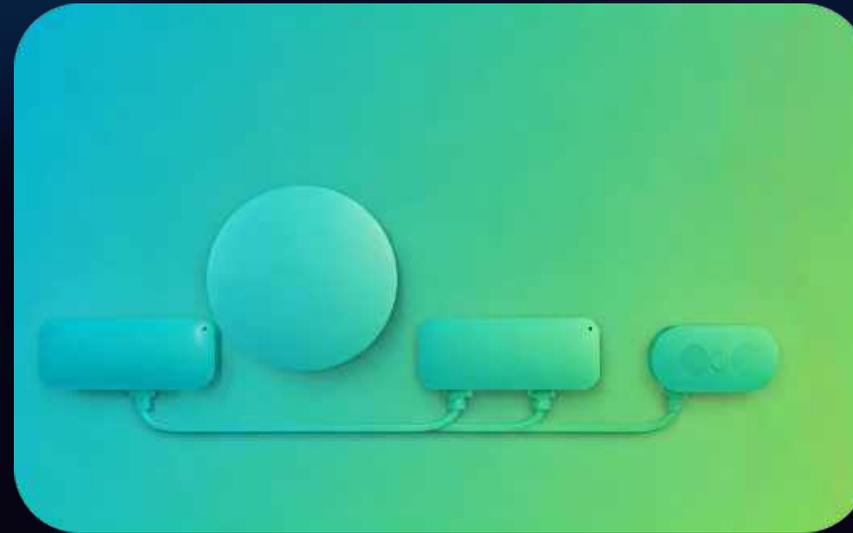
Spring return actuators for dampers with safety function. Emergency positioning options available.

Application Versatility



Hospitality

Our systems power climate control in hotels like Steigenberger, Hotel Victory, and SANA Hotel.



Healthcare

Mayapada Hospital relies on our solutions for precise environmental control.



Commercial

Ernst & Young offices and VR-Bank Steinfurt use our automation systems.

Complete Building Automation Ecosystem

Sensors & Thermostats

Ensure transparency and reveal energy-saving potential.

Actuators & Valves

Durable components for reliable daily operation.



DDC Controllers

From compact to BACnet/SC controllers for optimal automation.

I/O Modules

The perfect extension for our DDC controllers.

DEOS Operating Devices for Building Automation

DEOS offers a range of operating devices for seamless building automation. From room control units to system control units, we provide solutions for every application.

Our devices enable intelligent networking of lighting, blinds, heating, and building management systems.





Control Unit Portfolio



Android Touch PC

Preconfigured control cabinet panels from 10.1 to 21.5 inch screen sizes.



Touch LED Monitor + Mini PC

Bundled solution for small to medium projects. Available in 15.6 to 21.5 inches.



IO Module with Temperature Sensor

Features 7 integrated IOs and temperature sensor for room control.

Product Advantages

Uniform Operation

Consistent graphical operation from DDC controller to BMS/MBE.

Preconfigured

Operating solutions come pre-configured as plug & play for immediate use.

IP-capable

All operating solutions are fully IP-capable.

Flexible Use

Available in different sizes depending on your needs.



Application Examples



Controller with Onboard GLT/MBE GLT/MBE

DEOS Controller with Onboard
GLT/MBE and Android Touch PC.



GLT/MBE OPENweb

DEOS GLT/MBE OPENweb and Android
Touch PC.



Controller with Monitor

DEOS Controller and Touch LED
Monitor + Mini PC.

Smart Building Sensors: Powering Powering Efficient Automation

Modern sensors transform buildings into intelligent spaces by making energy flows transparent and revealing efficiency opportunities. They measure critical parameters like temperature, humidity, and CO₂ levels, providing the data foundation for smart building management.

These sensors enable building operators to optimize climate conditions for occupants while simultaneously reducing energy consumption. The collected data can be processed through building control systems or IoT platforms, creating actionable insights for energy management.

With high-quality sensors, buildings become responsive environments that adapt to usage patterns and environmental conditions, maximizing comfort while minimizing resource use.





LoRaWAN: The Ideal Solution for Existing Buildings



Wireless Advantage

Eliminates costly cable installation, making retrofitting existing buildings simple and affordable



Long Battery Life

Operates for up to 10 years depending on sensor type, reducing maintenance needs



Enhanced Security

Provides encrypted data transmission to protect sensitive building information



Superior Range

Offers excellent building penetration and coverage with minimal infrastructure

LoRaWAN sensors represent one of the most advanced methods for monitoring building data, particularly for post-digitization projects. Their low provisioning costs and simple integration make them an increasingly popular choice for building automation professionals seeking efficient solutions.

Precision Sensors for Optimal Building Performance

High-quality sensors are the foundation of effective building automation. They provide the critical measurements that automation stations use to make intelligent decisions. Inaccurate data leads to suboptimal control, wasting energy and increasing costs—heating expenses rise approximately 6% per degree of room temperature.

Temperature Sensors
Precise detection of room and outdoor temperatures

Air Quality Sensors
Track CO₂ content and mixed gas concentrations

Humidity Sensors
Measure relative humidity in ducts and rooms

Pressure Sensors
Monitor pressure in liquid media and HVAC systems



DEOS relies on high-precision sensor technology with minimal tolerance values to provide the most accurate measurements possible, ensuring optimal system control and maximizing energy savings potential.

Comprehensive Sensor Solutions for Every Need



Multisensors

Ideal for indoor applications where multiple measurements are needed in a single location, combining temperature, humidity, and presence detection capabilities.

Environmental Sensors

Outdoor temperature and brightness sensors provide critical data for controlling lighting, blinds, and climate systems based on external conditions.

Specialized Detectors

Door/window sensors and presence detectors optimize ventilation and room usage, ensuring energy is only used when and where needed.

These comprehensive sensor solutions can be deployed across various building types, from offices and retail spaces to healthcare facilities and educational institutions, creating smarter, more efficient environments.

❖ Security & Communication Systems Catalog



Security & Communication Systems Catalog

Complete portfolio of video surveillance, intrusion detection, fire detection, voice evacuation, access control, and professional audio systems.



Video Systems



Surveillance

Monitor facilities in
real-time



Security

Prevent unauthorized
access



Detection

Identify potential
threats

Intrusion Alarm Systems

Motion Detection

Advanced sensors for accurate alerts

Perimeter Protection

Secure facility boundaries

Alert Notification

Instant response protocols



Conference Systems

Audio Quality

Crystal clear sound transmission



Collaboration

Seamless participant interaction



Connectivity

Reliable wireless options



Control

Intuitive management interface



Public Address and Voice Alarm

1

Detection

Identify emergency situations

2

Alert

Clear voice instructions

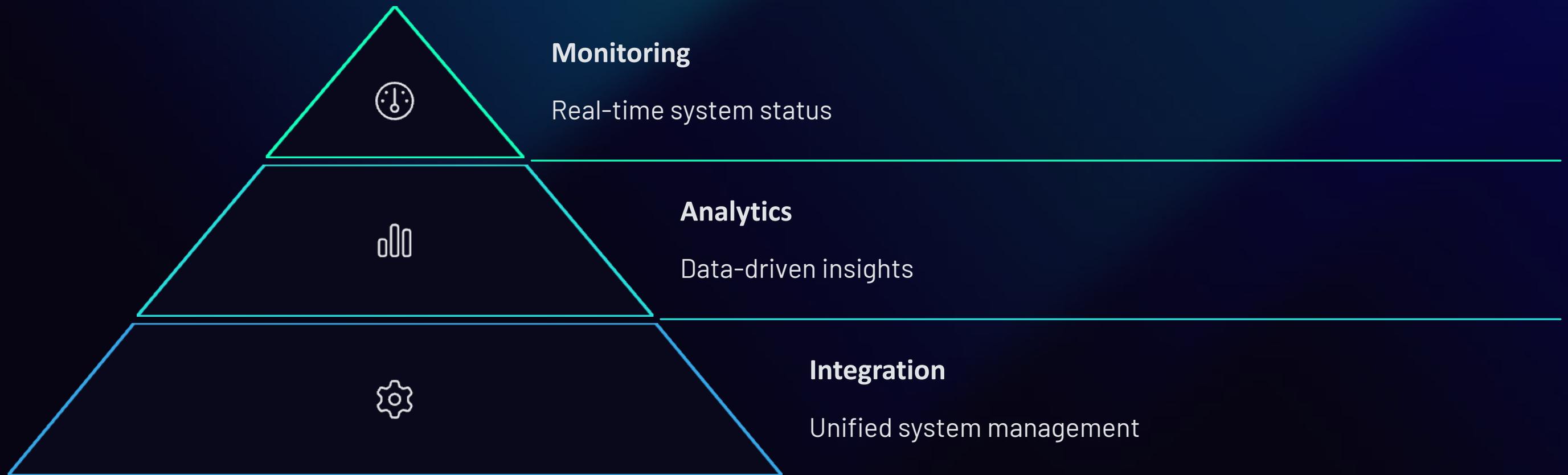
3

Evacuation

Guide people to safety



Software Products



Access Control Systems

Identification

Verify credentials

Authentication

Confirm identity

Authorization

Grant appropriate access



❖ Fire Alarm Solutions



Advanced Fire Alarm Solutions for Facilities

At Muassasah Mwad AlTshyd, we deliver comprehensive fire alarm systems engineered specifically for Saudi Arabian facilities. Our end-to-end solutions ensure compliance with Saudi Civil Defense regulations while meeting the highest international safety standards. With expert design, installation, and maintenance services, we protect what matters most across commercial, residential, and institutional environments.

Comprehensive Fire Alarm System Services

1

System Design & Engineering

Custom solutions based on detailed risk analysis, occupancy type, and specific facility requirements. Every design adheres to NFPA standards and Saudi Civil Defense regulations.

2

Installation & Integration

Professional installation of control panels, detectors, and notification devices with seamless integration to Building Management Systems, Voice Evacuation, and Emergency Lighting.

3

Testing & Commissioning

Rigorous testing protocols by certified technicians with comprehensive documentation and thorough end-user training sessions to ensure operational readiness.

4

Maintenance & Support

Annual Maintenance Contracts providing scheduled inspections, preventive maintenance, and 24/7 emergency response to maximize system reliability and longevity.

Technical Expertise & Compliance Assurance

Advanced System Capabilities

- Addressable & Conventional Fire Alarm Systems
- Voice Evacuation and Public Address Integration
- Central Battery & Emergency Lighting Coordination
- Sprinkler and Gas Suppression System Interfacing
- Networked Panel Solutions for Campus Environments

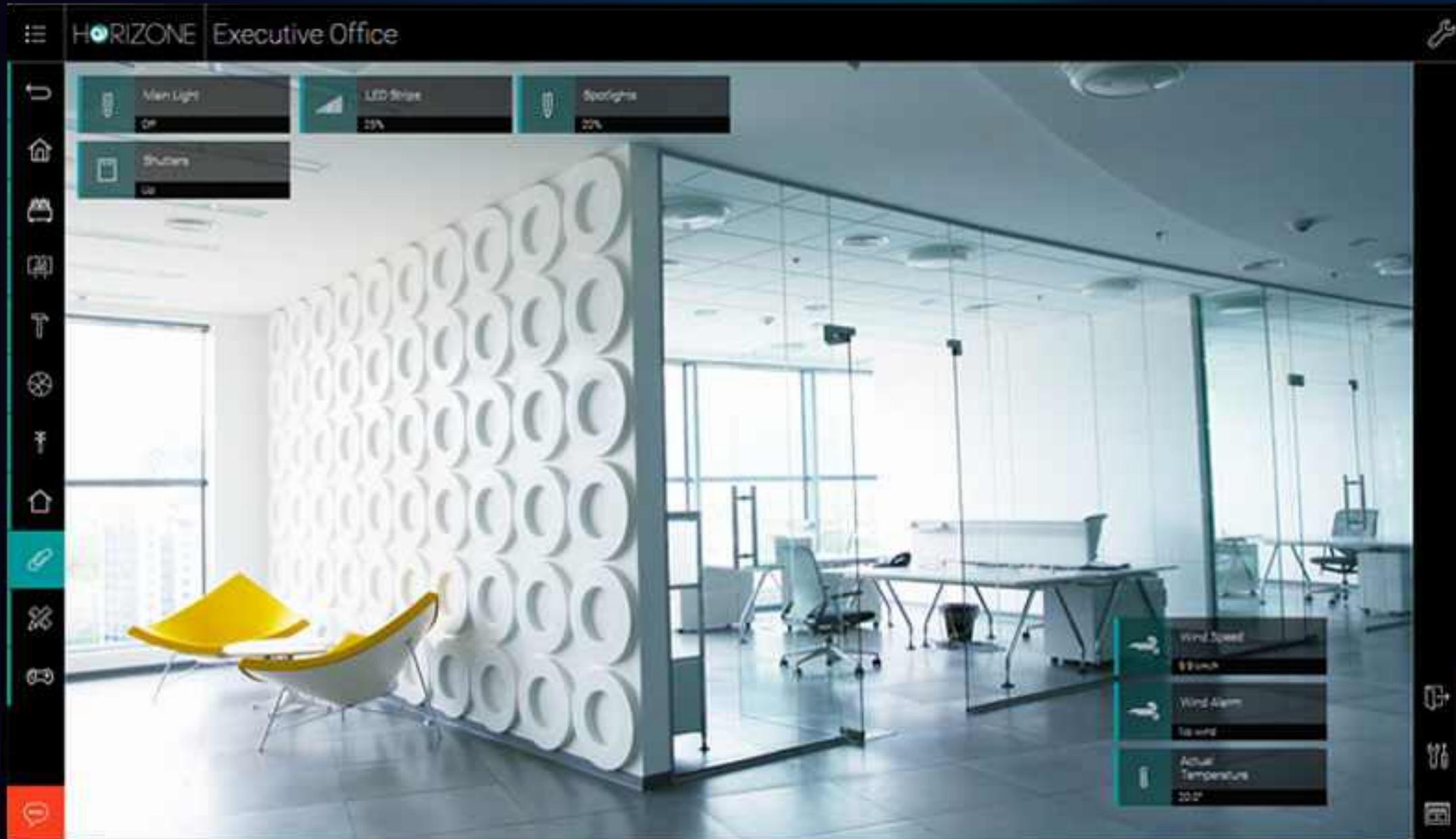
Why Facility Managers Choose Us

- Vendor-neutral approach ensuring optimal system selection
- Compliance with Saudi Civil Defense requirements
- Certified engineers with specialized fire safety training
- Comprehensive documentation for regulatory inspections

Our certified technicians implement systems that meet or exceed EN54 and NFPA standards, with special attention to Saudi-specific requirements for commercial and industrial facilities.

❖ Guest Room Management System

Smart Control Requirements



Secure **KNX** Connection

Over 7,000 Products

Comfort

Access

Security

KNX Materials



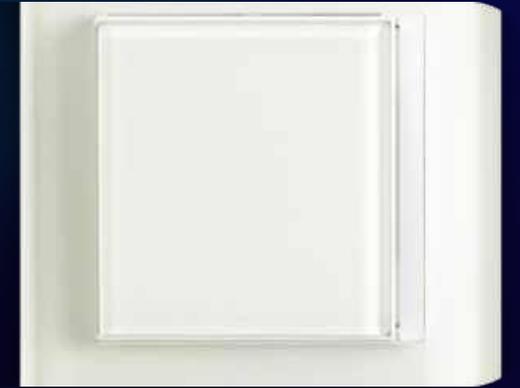
Plastic



Wood



Aluminum



Glass



Stone

Hotel Rating

Hotel Type	Design	Function	Material	Technology
 	<p>Moderate investments on energy saving, design /aesthetic sophistication</p>	<p>Access control HVAC control Room light Activation</p>	<p>Plastic</p>	<p>KNX + INTEFACE OF DIGITAL INPUTS</p>
 	<p>Relevant investments on energy saving, design /aesthetic sophistication</p>	<p>Access control HVAC control Room light Activation Bedside Activation</p>	<p>Plastic / Glass</p>	
 	<p>Major investments on energy saving, focused requirement in design / aesthetic sophistication</p>	<p>Access control HVAC control Room light Activation Bedside Activation Wireless control & mobility</p>	<p>Custom solution (wood, metal, glass)</p>	 

KNX Line Card



Switches and Sockets



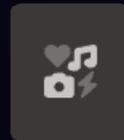
Climate Control



Supervision



Lighting Management



Sensors and Metering



System Components



Shutters Management



Access Control



Accessories

Switches and Sockets



ELEGANCE

- 2, 4, 6, 8, 10 Channels
- On/Off Commands
- Dimming
- Shutters
- Venetians control
- Scene Recall
- Capacitive Buttons.
- Embedded Temp.
- Black / White



Mini PAD

- 4 or 8 Channels
- On/Off Commands
- Dimming
- Shutters
- Venetians control
- Scene Recall
- Black / White



TALLY

- 4 channels
- On/Off Commands
- Dimming
- Shutters
- Venetians control
- Scene Recall
- Custom Colors



BEDSIDE PANEL

- 4 - 8 - 10 Channels
- On/Off Commands
- Dimming
- Shutters
- Venetians Control
- Scene Recall
- Embedded Temp.
- 2 UI
- Two Sockets

Lighting Management



DALI GATEWAY

- Switching Commands
- Dimming Commands
- Two DALI Outputs
- 64 ECGs
- 16 DALI Groups



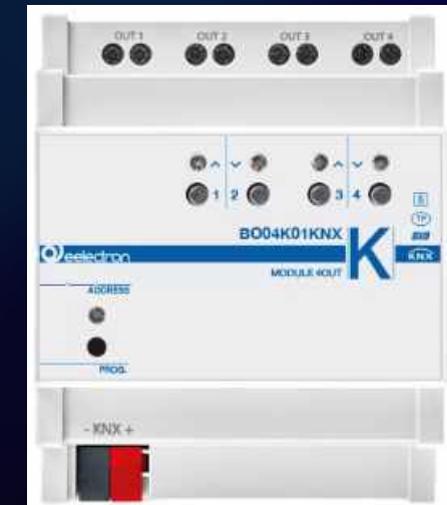
IO Interface

- 2 Channels
- 4 Channels
- Interface Sensors
- Conventional Push Buttons



UNIVERSAL MODULE

- 4 Channels
- 8 Channels
- 12 Channels
- 16 Channels
- 24 Channels



Dimmer

- 2 Channels
- 4 Channels
- Dimming Commands

Shutters Management / Climate Control / Sensors



SHUTTER MANAGEMENT

- 2 Independent Blind
- 4 Independent Blind
- 6 Independent Blind
- 8 Independent Blind
- Max 10 A
- Switching Commands



CLIMATE CONTROL

- Temperature Only
- Temp. & Humidity
- 3 Speeds Fan
- Occupancy
- Capacitive Buttons
- On/Off Control
- Dimming Control
- 2 and 4 pipes Fan Coils



PRESENCE DETECTOR

- Presence
- Bay Presence
- Lighting
- Temperature
- Humidity
- Sound
- Black / White

Access Control



TRANSPONDER READER

- Glass covers
- Personalized Backlit Room Number
- DND - Do Not Disturb
- MUR - Make Up Room
- 2 UI
- Door Bell
- Black / White



TRANSPONDER READER

- 2 Digital Inputs
- 2 Relays Outputs
- 4 LEDs
- 3 of which are freely configurable
- Optional Door Bell



CARD HOLDER

- Glass covers
- DND - Do Not Disturb
- MUR - Make Up Room
- Configurable backlit capacitive button
- Card Holder
- Integrates a Buzzer



TRANSPONDER HOLDER

- 2 Relays Outputs
- 2 Digital Inputs
- Black / White / Iron

Supervision



TOUCH PANEL 3.5"

- 3,5 Inches
- Colored Display
- Dimming
- Status
- Values
- Lighting
- Shutters
- Timers
- Password Protected
- Embedded Temp.
- RGB colored Led
- Different Colors



TOUCH PANEL

- Horizone IP Touch Panel
- Android Based
- Colored 5"
- Colored 8"



HORIZONE WEB SERVER

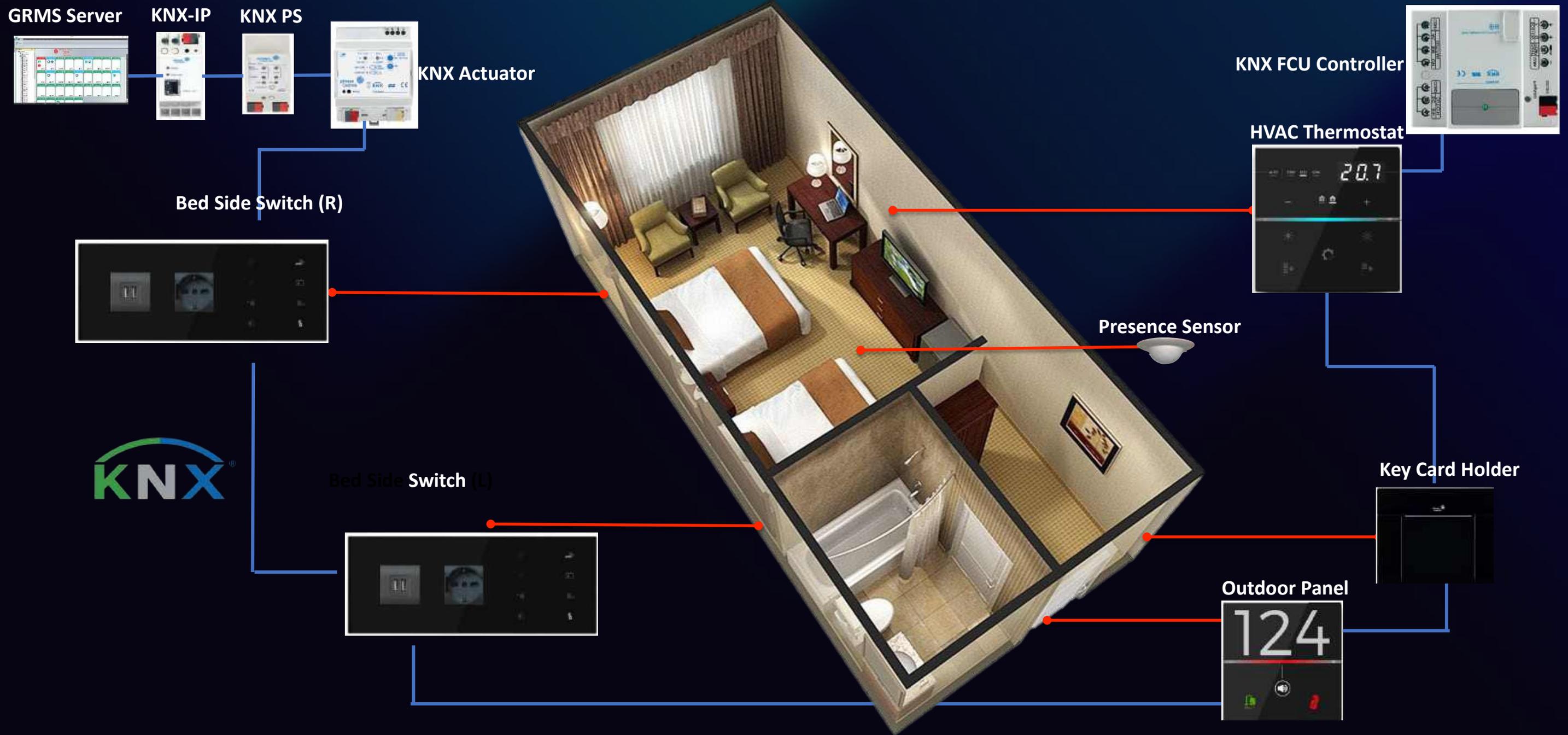
- Supervision
- Monitoring
- Modbus
- Alarm Systems
- Fire Alarm
- Smoke Detections
- Audio/ Video
- Mac OS X
- Microsoft Windows
- Apple iOS
- Google Android
- Free Application



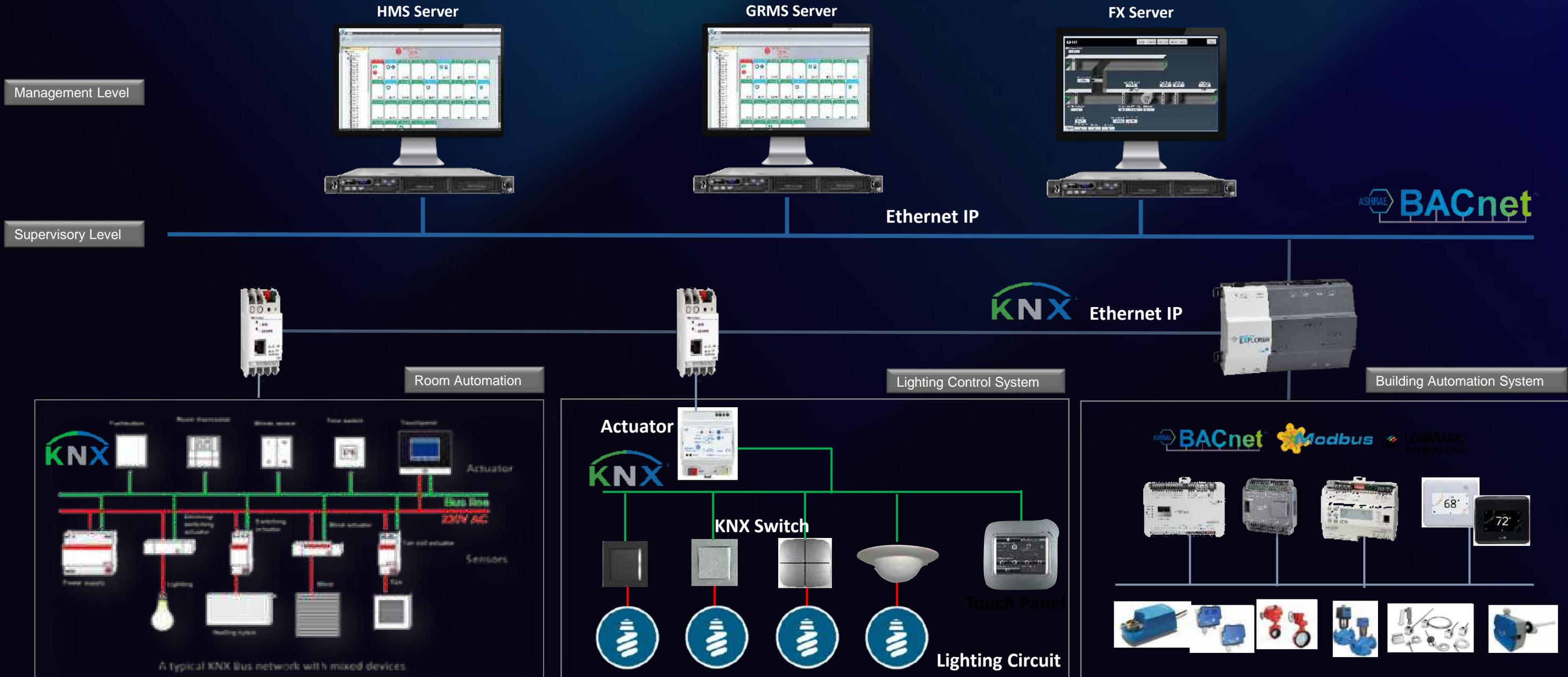
DOCKING STATION

- Brushed Alluminium
- Brushed Black Alluminium
- iPad Air 2
- iPad Pro 9,7"
- iPad Mini 2
- Ipad Mini 4

Guest Room Management System



Complete Solution



❖ Audio/Video Intercom



Enhancing Security and Communication with Advanced Intercom Systems

Modern buildings demand reliable and secure communication. Audio and Video Intercom Systems from **Muassasah Mwad AITshyd** offer efficient access management, enhanced safety, and improved convenience for all types of facilities.

Comprehensive Intercom Solutions for Every Need

We design, supply, install, and maintain cutting-edge intercom solutions that seamlessly integrate with your existing security and smart building platforms.



Audio Intercom Systems

Crystal-clear two-way voice communication for reliable entry management.



Video Intercom Systems

High-definition cameras and indoor monitors for visual verification of visitors.



IP-Based Intercom Solutions

Scalable and flexible solutions for large, complex, and networked facilities.



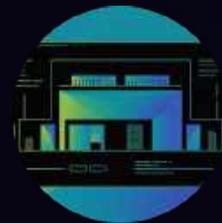
Mobile-Enabled Intercoms

Control and monitor your system remotely from anywhere, enhancing convenience.



Integrated Security Systems

Seamless integration with access control and CCTV for a unified security posture.

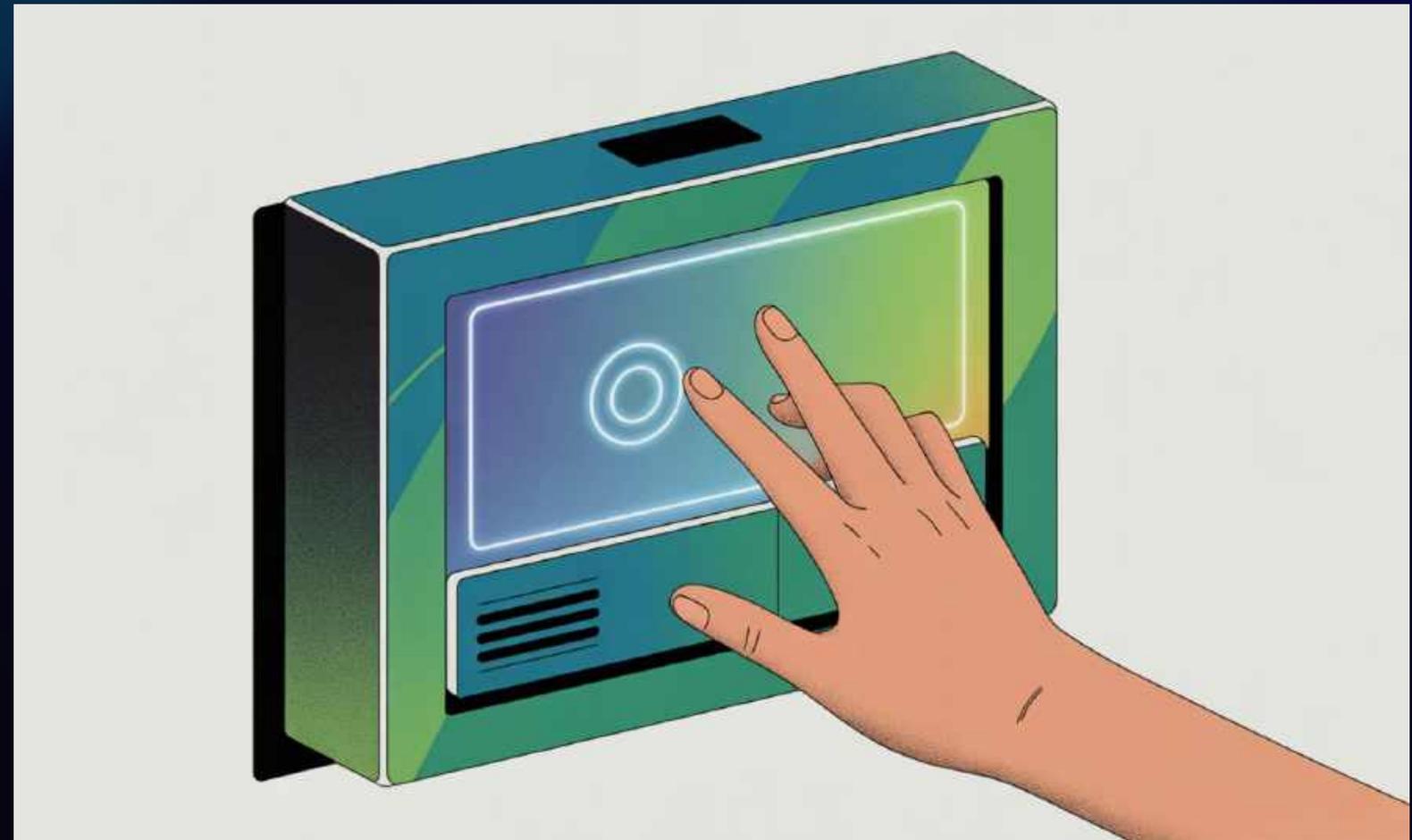


Centralized Management

Intuitive platforms for easy monitoring and administration of your entire system.

Unlock the Benefits of Advanced Intercom Systems

- **Enhanced Security:** Verify visitors visually and audibly before granting access, preventing unauthorized entry.
- **Improved Access Control:** Manage entry points with precision, granting access based on predefined rules and schedules.
- **Convenient Remote Management:** Unlock doors and monitor activity from anywhere using mobile devices or centralized platforms.
- **Reduced Personnel Costs:** Automate visitor screening and access, minimizing the need for dedicated security staff.
- **Scalable & Future-Proof:** Our solutions are designed to grow with your needs, accommodating future expansions and technological advancements.
- **Seamless Integration:** Easily connect with existing building systems like elevators, alarms, and smart home platforms.



Versatile Applications Across Industries

Our audio and video intercom systems are meticulously designed to meet the unique demands of various sectors, ensuring tailored security and communication solutions.

Residential & Gated Communities

Secure homes and common areas, managing visitor access with ease.

Commercial & Business Business Centers

Streamline client entry, manage deliveries, and enhance employee safety.

Hotels & Serviced Apartments

Provide convenient guest access and internal communication solutions.

Hospitals & Healthcare Facilities

Ensure controlled access to sensitive areas and efficient patient-visitor communication.

Educational Institutions

Manage campus entry, secure classrooms, and facilitate emergency communication.

Industrial & Utility Facilities

Control access to critical infrastructure and high-security zones.

❖ Metering Solutions

Key Features & Benefits



High Accuracy

Precise calculation of water consumption with long-term measurement stability.



Durability

IP68 protection class with battery lifetime up to 16 years.



Smart Connectivity

Multiple communication options including M-Bus, LoRaWAN, and NFC.



Versatile Installation

No straight sections required. Install in any position.



AXIOMA
METERING

Real
needs.

Real
solutions.



Qalcosonic W1
A design DN15-20

Smart ultrasonic
water meter

Technical Specifications

Temperature class	T30, T30/90, T90/h
Nominal flow	6.3 / 10 / 16 / 25 / 40 m ³ /h
Dynamic range	Q1/Q3 = R 80 / 160 / 250 / 400 / 500 / 800
Protection class	IP68
Nominal pressure	PN16 (PN25 for flange version)
Battery lifetime	Up to 16 years



Communication Interfaces



Radio Interface

WM-Bus 433/868 MHz,
LoRaWAN, NB-IoT for
remote data collection.



NFC

Near-field
communication for
easy on-site
configuration and
reading.



Pulse I/O

Configurable pulse
inputs/outputs for
integration with
existing systems.



Optical Interface

For data reading and
meter
parameterization.

Data Registration & Monitoring

Volume Tracking

Records total, forward, and reverse volume with pulse input options.

Flow Monitoring

Tracks maximum and minimum flow rates with date stamps.

Error Detection

Alerts for battery, air in pipe, leaks, and operational issues.

Data Logging

Stores hourly, daily, and monthly values in internal memory.



LCD Display & Indications



Comprehensive Display

8-9 digit LCD showing integral and instantaneous measured parameters.



Status Indicators

Visual alerts for battery level, flow direction, leaks, and errors.



Archive Access

View historical consumption data directly on the meter display.

Installation Flexibility

Horizontal

Standard horizontal pipe installation.

Indoor/Outdoor

IP68 rating allows installation in pits or exposed locations.



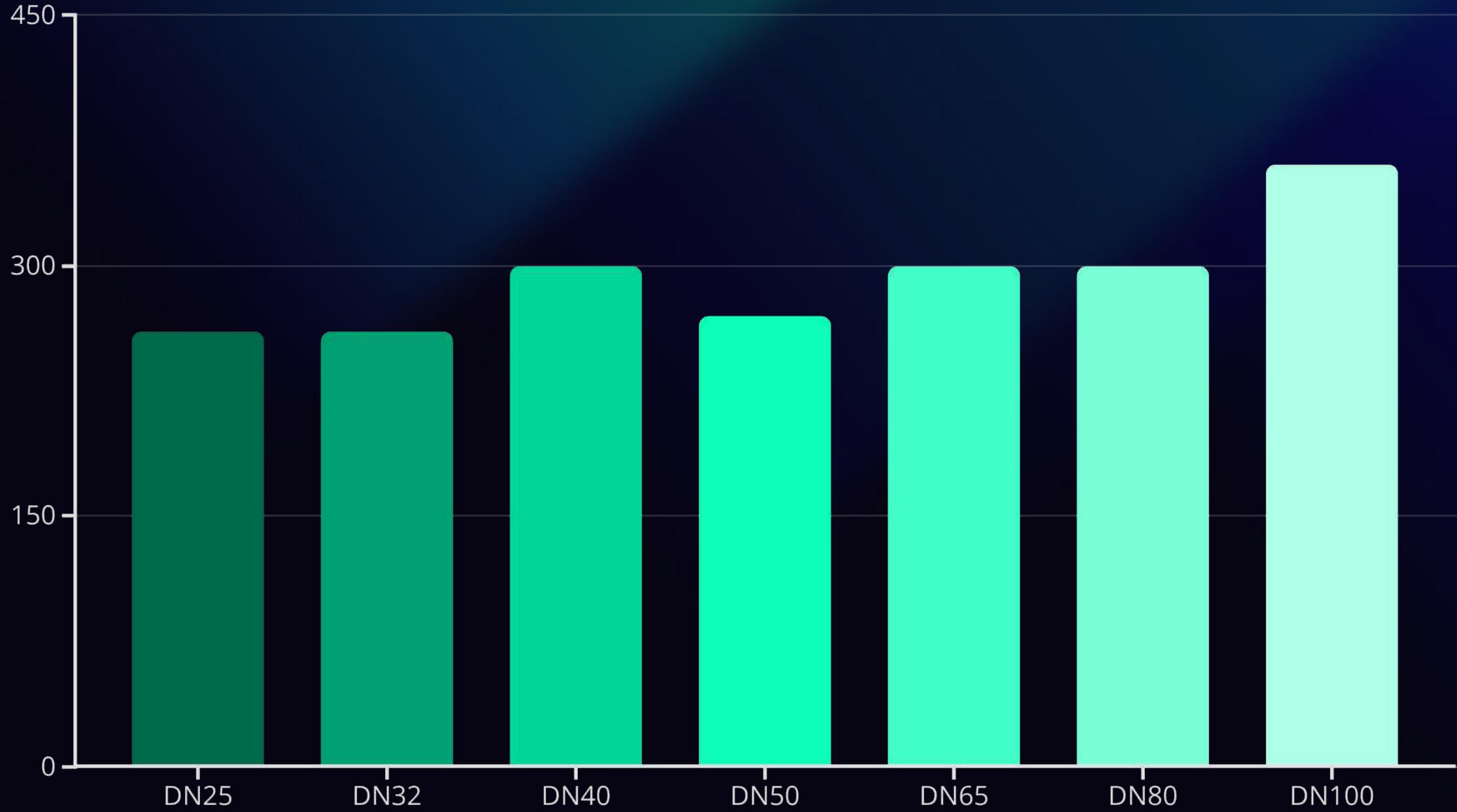
Vertical

Vertical rising or falling pipe installation.

Diagonal

Installation at any angle for maximum flexibility.

Size & Dimensions



W1 Model Advantages



Durable Composite Material

Lightweight, durable, and suitable for drinking water.



Superior Measurement

Wide dynamic range with sensitivity down to 3 l/h.



IoT Ready

Packed with latest communication technologies for smart metering.

Certifications & Approvals



Our meters meet international standards including MID (2014/32/EU), OIML R49, and have country-specific approvals for UK, France, Italy, Netherlands, and more.

❖ Cables Solution

Powering GCC Electrical Needs

30+ Years of Excellence

Established in 1991, Misterlight is a trusted name in electrical trading across UAE and GCC.

Diverse Product Range

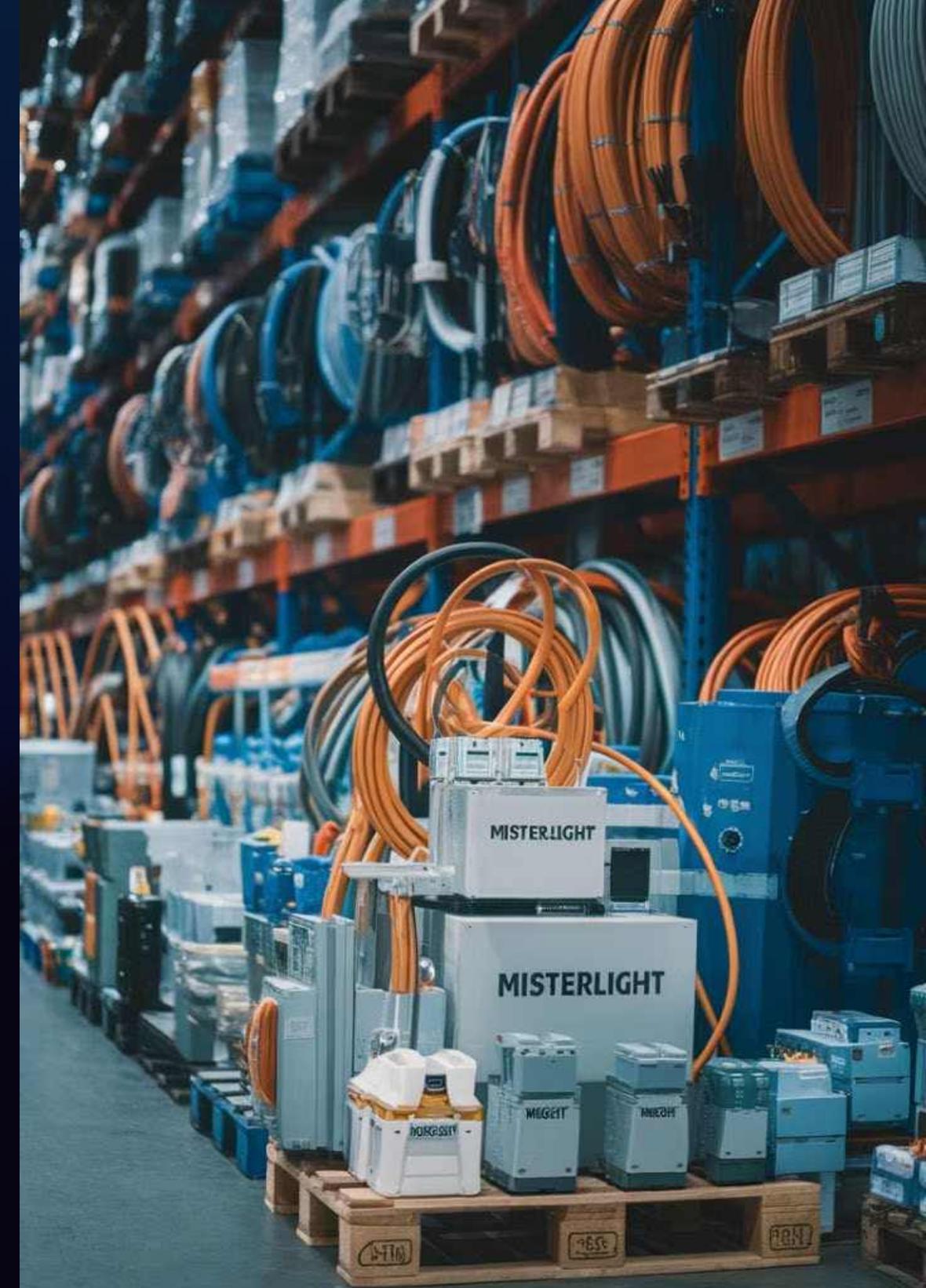
Offering specialized cables and electrical accessories for various industries.

ISO 9001:2015 Certified

Commitment to quality management and customer satisfaction.

Strategic Partnerships

Collaborations with leading brands like Cavicel, Firecel, Paige, and ICC.



Comprehensive Cable Solutions

Specialized Cables

- Fire Performance Cables
- Instrumentation Cables
- Fibre Optic Cables
- EPR/LSZH Flexible Cables

Accessories

- Junction Boxes
- Industrial Plugs and Sockets
- Aluminium Boxes
- Cable Glands and Accessories

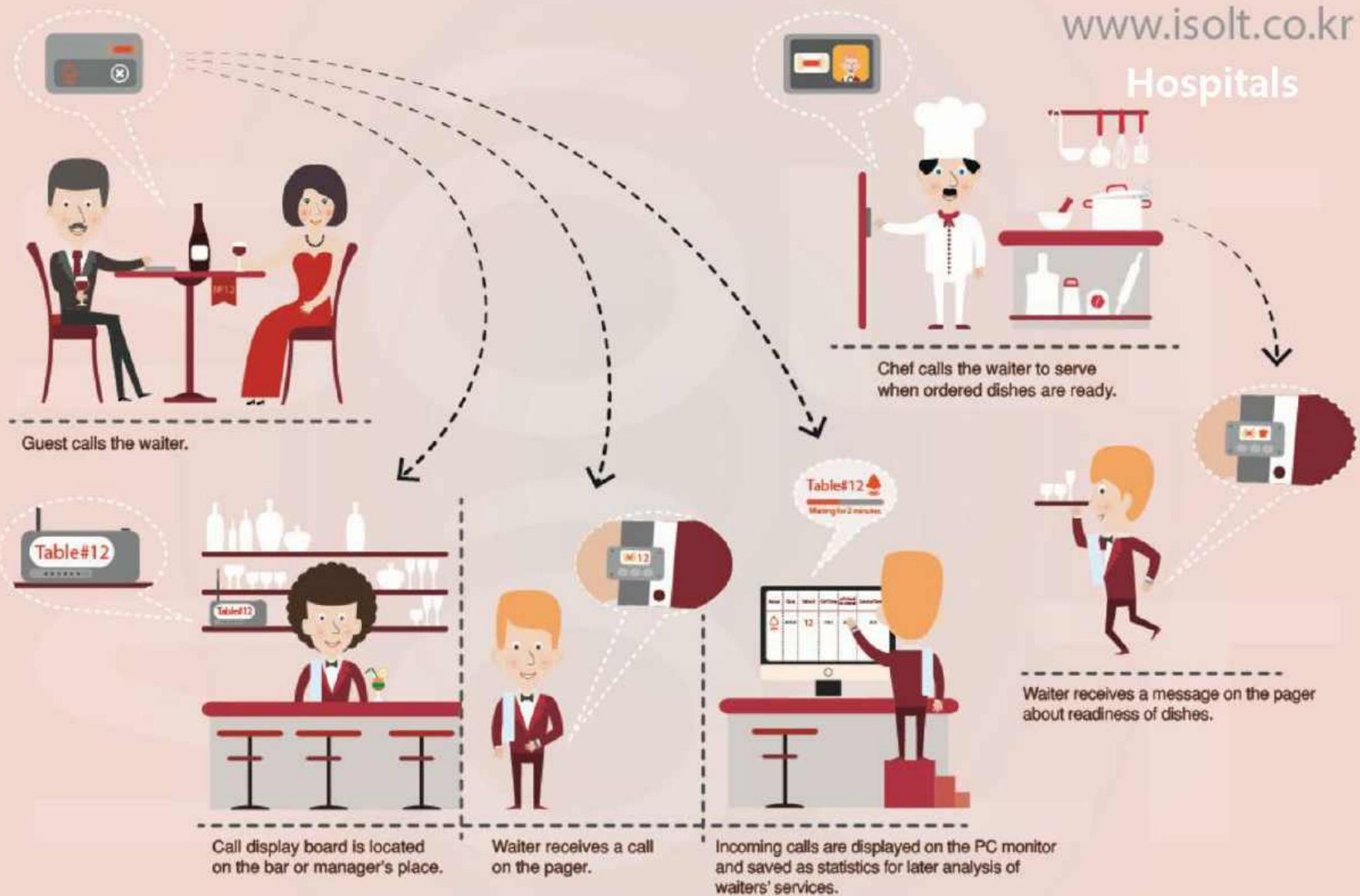
❖ **Wireless Solutions.**

SOLT Wireless Calling System

Introducing SOLT, an innovative wireless calling system designed for efficient communication in various settings, particularly hospitals.



Restaurant Application





Hospital Application



Patient Care

Enhances patient-staff communication in hospital wards.



Emergency Response

Facilitates quick response to urgent medical situations.



Staff Coordination

Improves coordination among medical staff for efficient care delivery.



Outstanding Transmitter Features

Extended Range

Longer call distance for wider coverage.

Energy Efficient

Battery saving algorithm for prolonged use.

Reliable Communication

Ensures consistent and clear signal transmission.

Call Reach Range



1

Mobile Receiver

100m range in open field.

2

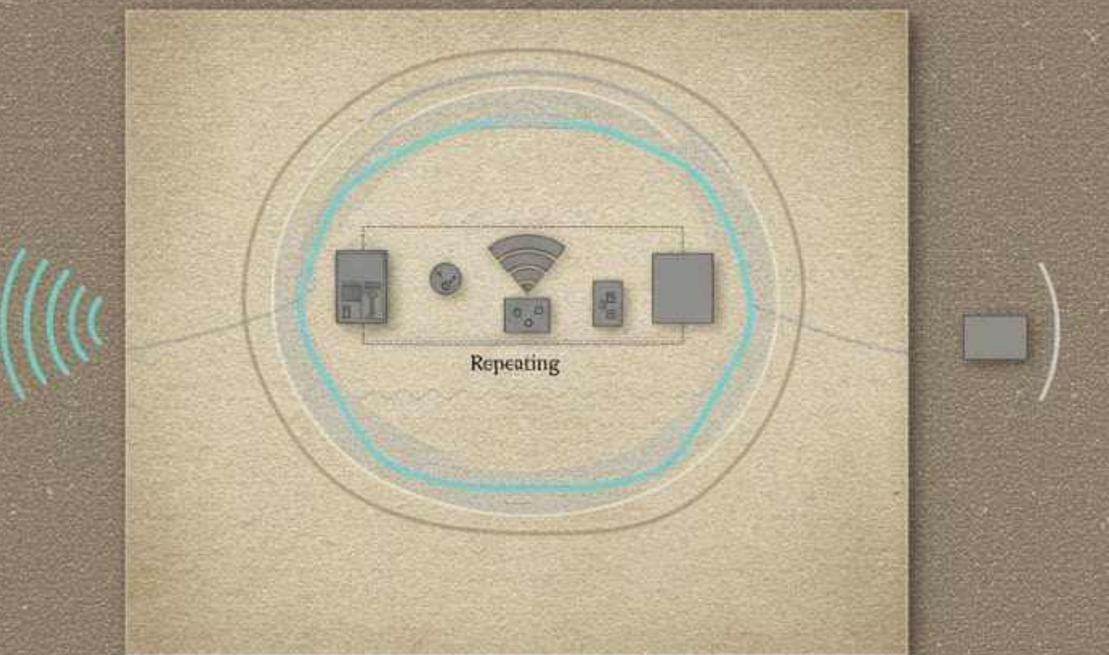
Repeaters

Extend signal and cover shaded areas.

3

Main Receiver

Central hub for signal management.



System Components

Transmitters

Portable devices for initiating calls.

Receivers

Main and monitoring units for signal reception.

Pagers

Personal devices for staff to receive alerts.

Product Categories

TRANSMITTERS



RECEIVERS



TRANSCIEVER



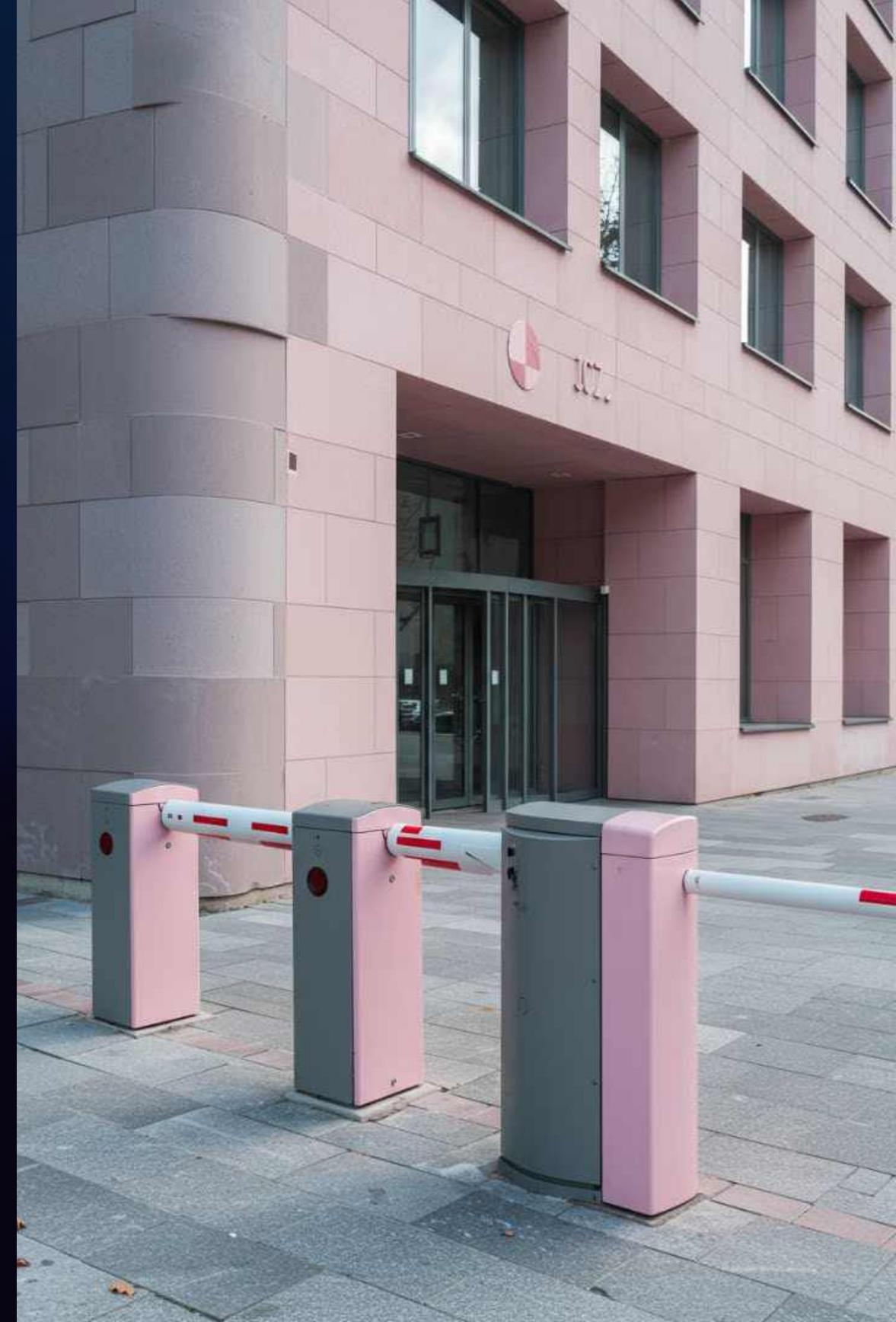
APPLICATON ITEMS



❖ **Bollard & Barriers**

Professional Manufacturer of Hostile Vehicle Mitigation Barrier

Established in 2009, we are a leading manufacturer of hostile vehicle mitigation barriers. Our R&D and operations are based in Beijing, with manufacturing in Hebei Province.



Overview

Industry Leader

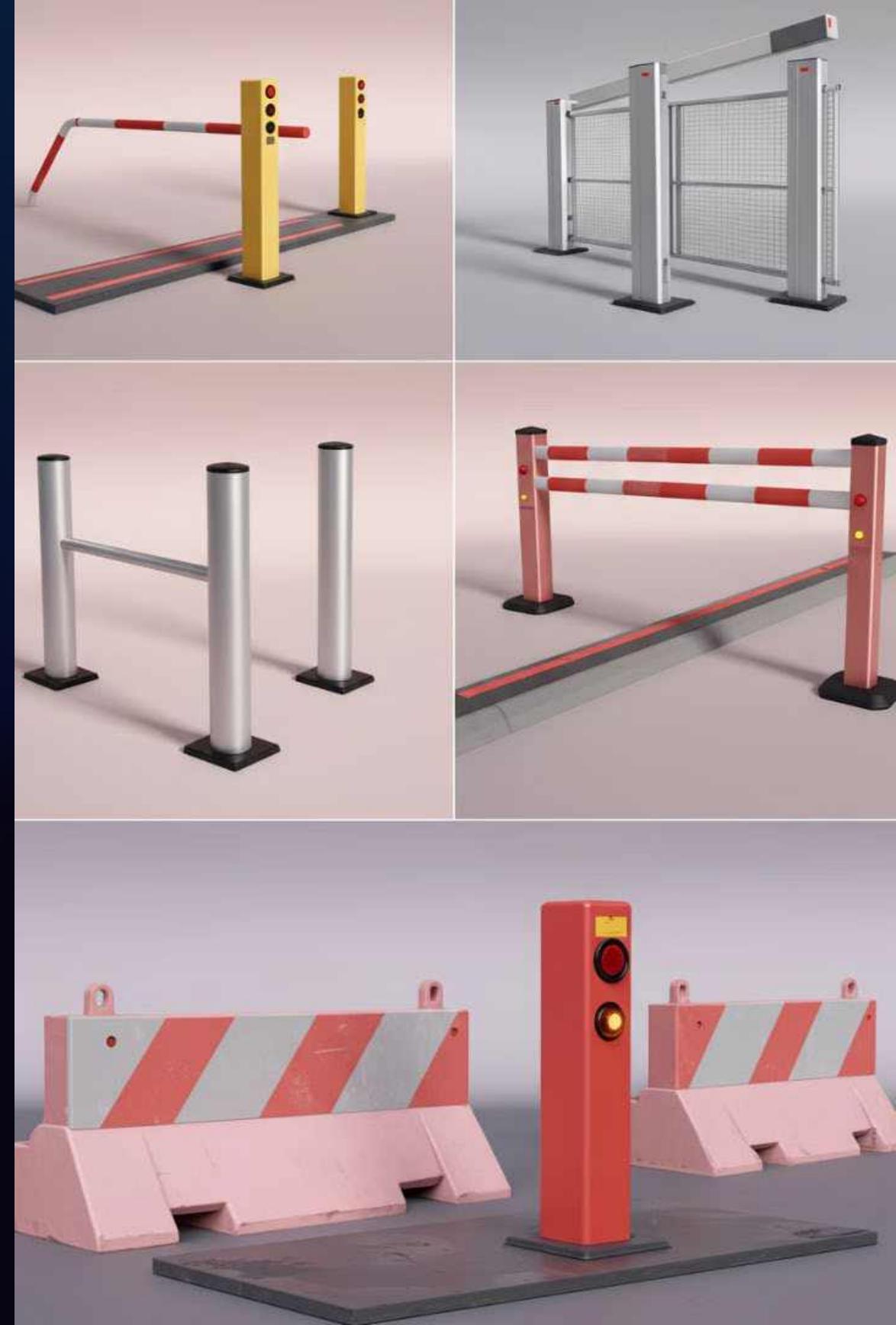
Drafting unit for China's security vehicle roadblock industry standard (GA/T1343-2016).

International Recognition

Only Chinese manufacturer to pass international impact tests.

Product Range

High-security bollards, road blockers, and rising beam gates for various security levels.



Quality and Certifications



Our commitment to quality is reflected in our ISO certifications and product qualifications, including CE and SGS.

Impact Testing Achievements

- 1** — 2011
First Chinese manufacturer to pass 6800KGS/80KMH vehicle impact test.
- 2** — 2018
First to pass impact tests for 3 products under new China Standard GA/T1343-2016.
- 3** — 2020-2023
9 models passed international impact tests.



Featured Product: Shallow Mount Road Blocker

SUPREMA RB-SM501

Hydraulic wedge barrier, anti-terrorist K12 M50 P1. Passed PAS 68:2013 and IWA 14-1:2013 tests.

Specifications

- Intercept Width: 2.5m-5m
- Intercept Height: 1000mm
- Depth: 300mm



Product Range

Bollards

Hydraulic, semi-automatic, manual, removable, and fixed options. K12 to K4 ratings available.

Barriers

Road blockers (K12 shallow mount, K8 deep mount) and rising beam barriers (K4).

Specialized

Tyre killers and modular vehicle barriers (MVB) for comprehensive security solutions.

Applications and Case Studies



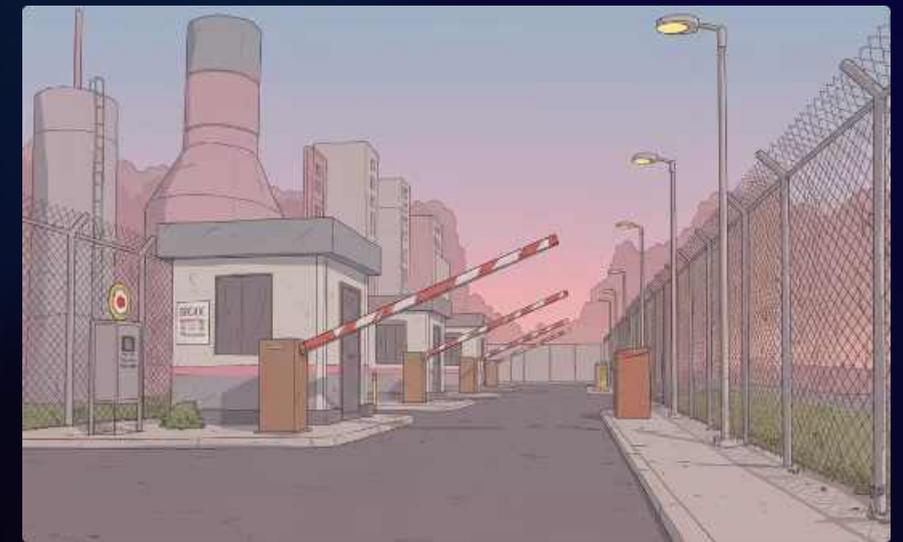
Government

Securing embassies and official buildings.



Transportation

Protecting airports, metro, and railway stations.



Critical Infrastructure

Safeguarding energy plants and military facilities.

❖ Lighting Solutions

Professional Lighting Solutions

Founded in 2016, our partner excels in professional lighting. Interior and exterior fixtures include LED downlights and wall lights. Track, pendant, panel, magnetic, and outdoor lights enhance retail, residential, and commercial spaces.

High Quality Products

1 Well-Equipped

Advanced instruments and strict quality control ensure top-notch products.

2 R&D Excellence

A team of 20 engineers develops 5-10 new items monthly.

3 Complete Solutions

Comprehensive lighting solutions for projects follow strict standards.

Lighting Quality Factors



Wattage



CRI



CCT



Lumen



Beam angle



UGR

Different combinations of these factors create varied lighting quality.

Product Index: Lighting Solutions

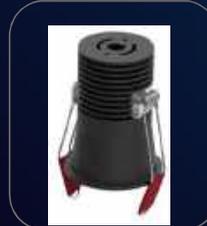
Downlights & Spotlights - Mini



MN02001



MN02003



MN02006



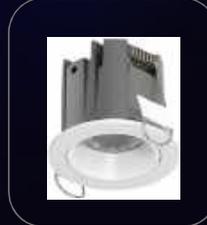
MN03007



MN03008



MN03010



MN05011



MN05012



MN05014



MN03016

Downlights & Spotlights - Round



RD01001



MD05002



RD05003



RD05004



RD05005



RM01006



RM01007



RM01008



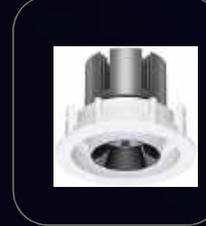
RM01009



RS03010



RS03016



RS03017



RS03018



RS05019



RS05020



RS05021

Downlights & Spotlights – Round (continued)



RS03022



RS03025



RS05026



RS05027



RS02040



RS05041



RS05042



RS03043



RS05028



RS05029



RS02030



RS06031



RS30044



RS30045



RS30046



RS30047



RS02032



RS02033



RS02034



RS02035



RS02036



RS02037



RS02038



RS02039

Downlights & Spotlights - Square



SM01001

SS03002

SS05004

SS05005

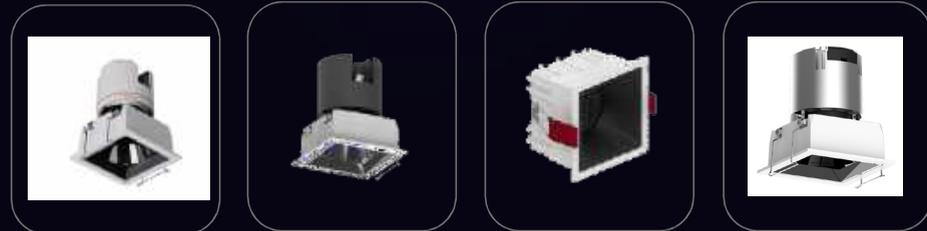


SS03009

SS05012

SS05016

SS06019



SS02022

SS02026

SS02030

SS02034

Downlights & Spotlights – IP Rated



WP03001

WP03003

WP06004

WP05005



WPC20006

WP02007

WP02009

WP02010

Downlights & Spotlights – Trimless



TR01001



TR05002



TR05003



TR05004



TR05005



TR05006



TR05007



TR02008



TR02009



TR02010



TR02014



TR02015



TR02016



TR02017



TR02018



TR02019

Gypsum Plaster Light – Downlight & Spotlight



GC07001



GC07002



GC07003



GC07004



GC07005



GC07006



GC07007



GC07008



GC07009



GC07010



GC07011



GC07012



GC07013



GC07014



GC07015



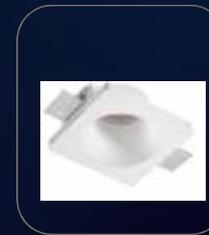
GC07029



GC07030



GC07031



GC07032



GC07033



GC07034



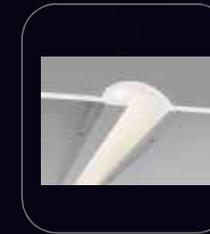
GC07035



GC07036



GC07038



GC07044

Gypsum Plaster Light – Wall Light



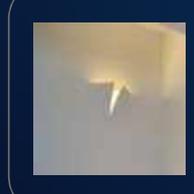
GW07016



GW07017



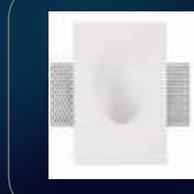
GW07018



GW07019



GW07020



GW07021



GW07022



GW07023



GW07024



GW07025



GW07026



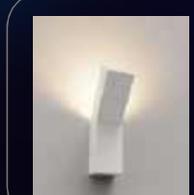
GW07027



GW07028



GW07037



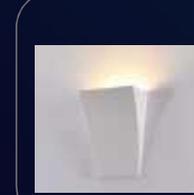
GW07039



GW07040



GW07041



GW07042



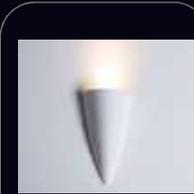
GW07043



GW07045



GW07046



GW07047



GW07048



GW07049

Track Light



TK01001



TK01002



TK01003



TK01004



TK01005



TK01006



TK01007



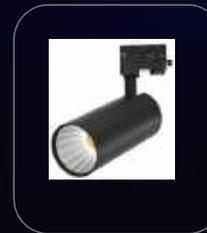
TK01008



TK31009

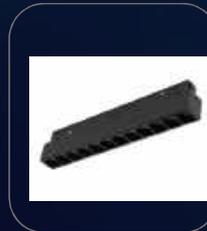


TK31010

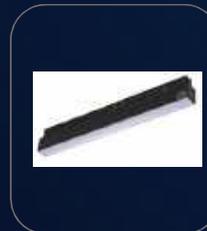


TK31011

Magnetic Track Light



MT0400120



MT0400220



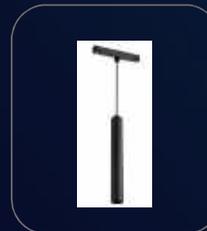
MT0400320



MT0400420



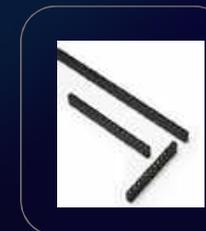
MT0400520



MT0400620



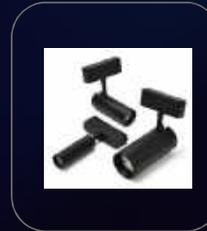
MT1600715



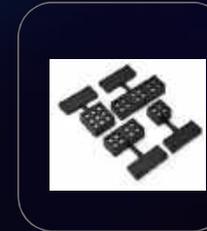
MT1600815



MT1600915



MT1601015



MT1601115

Panel & Pendant Linear Luminaires



PN083030



PL043380A



PL043380B



PL043380C



PL043380D



PL043380E



PL044265



PL045270



PL045575



PL046280



PL047290



PL0482100



PL044086A



PL044086B

Recessed Linear Luminaires



RL043530



RL045535



RL047540



RL0410536



RL0412536



RL0415048



RL0420550



RL034550



RL034549



RL037149

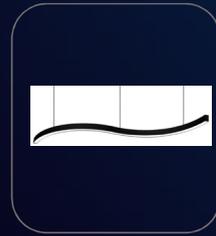


RL0420550



RL034549B

Curved Linear Luminaires



CL101409

Damp-proof Luminaires



DPR13001



DPR13002



DPR13003



DPR13004



DPR13005



DPL14006



DPL14007



DPL15008



DPR20009



DPR20010

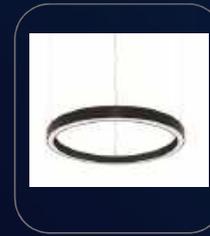


DPR20011



DPR20015

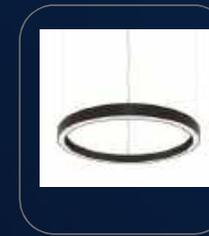
Pendant & Surface Mounted



PDR114060



PDR045040



PDR116080



PR01001



CR01002



CR05003



CR05004



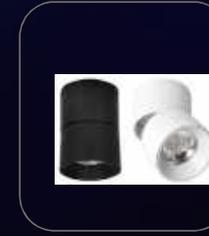
CRS05005



CR01002



CR05008



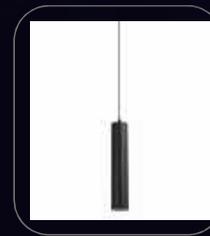
CR05009



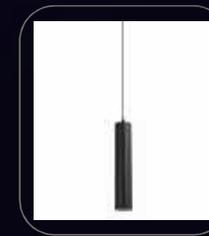
CRS05010



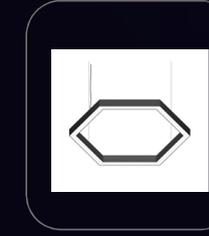
CR12011



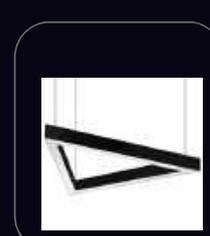
CR12012



CR12013



CH11014



CT26015



CR05016



CR05017

Local Collaborations and Product Offerings

We collaborate with leading Saudi companies.

This strategy allows us to offer a comprehensive range of construction products and services.



Specialized Services



Product Supply & Distribution

We provide high-quality MEP, HVAC, Low Current and Automation components and solutions. Our wide network of global and local partners gives us a diverse range of products.



Engineering Support & Consultation

Our team of expert engineers provides comprehensive engineering services that support projects throughout their life cycle, from concept to implementation.



Technical Solutions

Our team of engineers delivers innovative, cost-effective solutions for MEP, HVAC, Low Current and Automation needs. We can create custom solutions tailored to your specific project requirements.



Procurement & Localization

We are committed to supporting Vision 2030 by facilitating the procurement of locally manufactured products for your projects. We can help you navigate the process of product localization.

Technical Expertise

Product Knowledge

We have extensive knowledge of MEP, HVAC, Low Current and Automation products. This includes pressure gauges, and insulation materials. We also understand products from global and local brands like WEICCO, Axioma, WIKA, JOHNSON CONTROLS-FX, DEOS-AG, Misterlight, SOLT, AEI-Communication, Axis, Assa Abloy, Hochiki, etc.

Engineering Solutions

Our team provides expert solutions for mechanical, electrical, plumbing, low current, automation needs.

Material & Product Sourcing

We source materials for complex systems. This includes flexible connections, pipe insulation, and electrical components. We prioritize high-performance standards.

Our Team and Expertise

1 Leadership

Experienced entrepreneurs with a vision for the future guide our strategic direction.

2 Engineering Experts

Skilled professionals specialize in Mechanical, Electrical, and Plumbing (MEP), Heating, Ventilation, and Air Conditioning (HVAC), and Refrigeration.

3 Design Specialists

Creative minds transform initial concepts into tangible, practical solutions for our clients.

4 Technical Support

A dedicated team ensures smooth operations, providing ongoing assistance and guidance to clients.

5 Customer Service

We are dedicated to exceeding client expectations, providing exceptional support and service at every stage of the project.

❖ **Project Completed**

Riyadh Cables Factory

Completion of the HVAC system in Riyadh Cable Factory.

Our scope included complete supply of BMS materials along with installation(1st, 2nd & 3rd Fix) and testing & commissioning with handing over of the system.

Client: Riyadh Cables.

Contractor: Raneem Al Wusta

BMS Supplier: Construction Material Establishment(Muassasah Mwad AITshyd)

Brand: Johnson Controls

Project Location: 2nd Industrial City Kharj Road – Riyadh.



Kimpton IHG Hotel KAFD-Riyadh

We have completed the handing over of wireless distress/panic alarm system and the handing over of Avaya Server for IP telephony.

The Scope includes the Supply of Wireless panic alarm system, installation of the panic alarm system and testing & commissioning with handing over of the system.

For the Avaya Server, our scope was testing & Commissioning including handing over.

Client: KAFD

Contractor: 3S

Specialist Supplier: Construction Material Establishment(Muassasah Mwad AITshyd)

Brand: SOLT & Avaya

Consultant: JLL

Project Location: KAFD parcel-4.05 at Boulevard Street Aqiq District.



Mariott Hotel – Diplomatic Quarter

We have commissioning new HVAC units and upgraded the existing systems.

Our scope included upgrading of the existing AHU and supply of new materials for the VAV and FCU's including testing & Commissioning and handing over.

Client: Mariott

Contractor: Anfa Contracting Company

Specialist Supplier: Muassasah Mwad AITshyd

Brand: Johnson & Siemens

Project Location: Diplomatic Quarter - Riyadh.



Al Yamama – University Riyadh

We are in process of upgrading of the existing BMS, Fire, CCTV and ACS System for the entire University. The system includes HVAC, plumbing systems, Lighting control system, upgrading of the legacy Fire alarm system, CCTV and ACS system.

The scope includes supply of BMS, CCTV and Fire materials with field devices along with installation, testing & commissioning and handing over.

Client: AL-Yamama University

Contractor: International Contracting Company

Specialist Supplier: Muassasah Mwad AITshyd

Brand: Johnson Controls

Project Location: Madinah Road - Riyadh.



Al Akaria – Olaya Street Riyadh

We have completed successfully the upgradation of the Fire Alarm system to a new system.

The Scope includes the Supply of the new fire alarm system, including installation of the fire alarm system (2nd & 3rd fix) and testing & commissioning with handing over of the system.

Client: AL-Akaria

Contractor: idworks global Company

Specialist Supplier: Muassasah Mwad AITshyd

Brand: GST

Project Location: Al Olaya Street - Riyadh.



King Khalid International Airport Load Center 3

We have completed successfully the completion of Chiller Plant Manager .

The Scope includes the Supply of the BMS Materials and testing & commissioning with handing over of the system.

Client: GACA

Contractor: SSEM

Specialist Supplier: Muassasah Mwad AITshyd

Brand: JCI-FX

Project Location: Airport Load Center 3 - Riyadh

Contact Us

Reach out to our team to explore how Construction Material Trading can support your next project.

We provide comprehensive MEP, HVAC, Low Current, Innovative and Automation Solutions Partner.

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