














BUILDING MANAGEMENT SYSTEM

POWERED BY



-  HOT WATER
-  LIGHTING
-  EXHAUST FANS
-  AIR HANDLING UNIT
-  COOLING
-  VENTILATION
-  HUMIDITY
-  TEMPERATURE
-  AIR CIRCULATION
-  ENERGY CONSUMPTION
-  WIRELESS SENSOR CONTROL
-  CO2 MONITORING

BUILDING TECHNOLOGIES

BUILDINGS AND TOWERS



FOOTBALL STADIUM



DISTRICT COOLING AND HVAC SYSTEMS



INFRASTRUCTURES AND FACILITIES



CONTROL CENTER

BECKHOFF
New Automation Technology



“WE DESIGN YOUR CONTROL CENTER AND BUILD IT USING TAILOR MADE SOLUTION FOR THE BUILDING MANAGEMENT SYSTEM.”



CONTROL PANEL



“WE DESIGN AND BUILD YOUR CONTROL PANELS ACCORDING TO CE/UL STANDARDS. WE ALSO DO FIELD SERVICES & INSTALLATIONS.”

BUILDING MANAGEMENT SYSTEM



“WE CONTROL & MONITOR THE BUILDING’S MECHANICAL AND ELECTRICAL EQUIPMENT SUCH AS VENTILATION, HVAC, LIGHTING, POWER SYSTEMS, FIRE SYSTEMS, & SECURITY SYSTEMS.”

FIELD DEVICES

WE USE WIRELESS AND WIRED FIELD DEVICES.

BECKHOFF
New Automation Technology

thermokon
HOME OF SENSOR TECHNOLOGY

bürkert
FLUID CONTROL SYSTEMS



BECKHOFF
New Automation Technology

Beckhoff implements open automation systems based on PC control technology. The modular automation concepts from Beckhoff are based on a broad range of powerful Industrial PCs, I/O components for a large variety of signals, the high-speed EtherCAT communication system, universal TwinCAT automation.

EASYSSENS (Transmitter & Receiver)

The use of innovative technology makes it possible: the wireless EnOcean based system EasySens enables a networked building automation – self-powered, intelligent and maintenance-free. Thus, EasySens offers best possible flexibility for realizing individual requirements in new buildings and refurbishments.



ROOM OPERATING UNITS/CONTROLLER

Room operating units are used for temperature detection and integrated operation of HVAC, lighting and blinds for single room control. A variety of sophisticated and high-end designs and optional features are available.



LIGHT & MOTION



Intelligent sensors provide for a physical and emotional wellbeing of people in rooms. Motion and brightness are detected reliably: for individual, comfortable and increased energy-saving.



TEMPERATURE & HUMIDITY

Temperature and Humidity sensors for reliable detection of relative humidity and temperature in residential and commercial buildings, outdoor resp. in gaseous media of heating, ventilation and air conditioning systems.



AIR QUALITY SENSORS

Mixed GAS and CO2 sensors record air quality for demand-dependent ventilation of rooms. In modern buildings the use of these sensors is essential in order to increase energy savings and care for highest comfort levels in living and working spaces.



PRESSURE & VELOCITY

Pressure and air flow sensors for cooling and air conditioning must resist extreme conditions. Therefore our products are customized to withstand even the harshest environments.



FLOW METERS - VALVES & ACTUATORS



Versatile range for valves and flow meters for maximum control accuracy and energy efficiency.

WIRELESS SYSTEM

ADVANTAGES

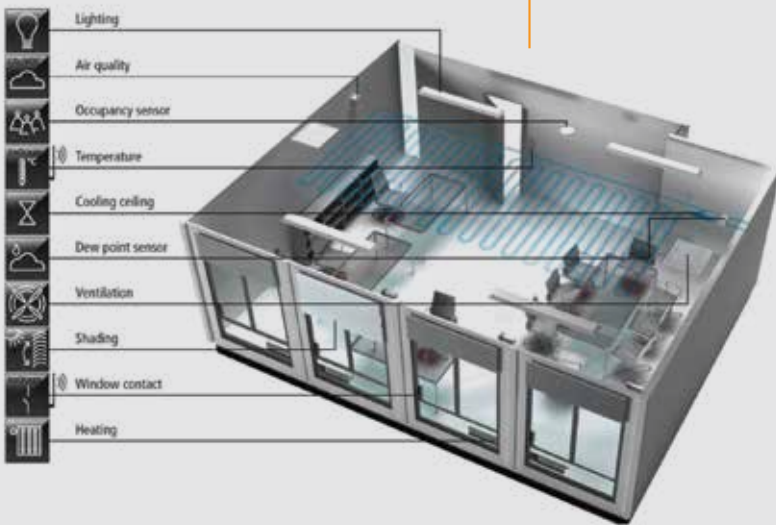
- > Cost savings due to energy Harvesting: producing energy from the sensor environment
- > Flexibility with sensor location-quick , easy mounting and commissioning
- > Reduction of fire load, no need for wires
- > Easy integration into existing buildings: wireless solution
- > Compatibility to other manufacturers: International Standard (IEC 14543-3-10)



BUILDING MANAGEMENT SYSTEM

ADVANTAGES

- > ENERGY EFFICIENT
 - 1- Analyze and monitor how energy is consumed.
 - 2- Create automated energy efficient measures in unoccupied areas of the building.
- > OPERATION & MAINTENANCE COSTS
 - 1- The advanced diagnostics available in building management systems will enable you to maximize proper use of equipment and have timely maintenance.
 - 2- Remote monitoring of equipment.
- > BENEFITS TO OCCUPANTS
 - 1- Individual room controls.
 - 2- Better management of time and money.
 - 3- Better control of internal comfort conditions.
- > BENEFITS TO BUILDING OWNER
 - 1- Higher value on property.
 - 2- Central remote control of building.



SOME REFERENCES

- HAMAD INTERNATIONAL AIRPORT
- ADVANCED PLASTIC INDUSTRIES (API)
- MONTE CASSINO HOTEL
- KHALIFAH FOOTBALL STADIUM



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AUTOMATION AND ROBOTICS



AUTOMATE and ITEC

