

Automation Specialist and System Integrator



Product Catalogue



About Us

UKAB Technologies is a pioneering provider of comprehensive industrial automation solutions tailored to enhance operational efficiency, productivity, and safety across various industries. Established with a commitment to innovation and excellence, we specialize in designing, implementing, and supporting advanced automation systems that meet the evolving demands of modern industrial environments.

Core Services:

Automation System Design and Integration:

We offer end-to-end solutions encompassing conceptual design, system architecture, hardware selection, and software development. Our expertise spans PLC programming, HMI design, SCADA, EMS and IIoT.

Control Panel Fabrication:

Our state-of-the-art facility is equipped to manufacture custom control panels that adhere to industry standards and client specifications. From panel layout and wiring to testing and certification, we ensure reliability and compliance with stringent quality norms.

Industrial Networking and Communication:

We specialize in establishing robust communication networks essential for seamless data exchange and real-time monitoring. Our solutions include Ethernet/IP, Modbus, Profibus, and other protocols, optimizing connectivity across diverse industrial devices and systems.

HMI SERIES

- **Macros**
- **Audio Library**
- **Recipe Management**
- **In-Built Symbol Library**
- **Data & Alarm Logging**
- **Retentative Data Display**
- **24 Bit HD Display Resolution**
- **USB Flash Programe Update**
- **Ethernet/Serial Communication**
- **Multiple Communication Protocols**
- **Multi Level User Password Management**



Machinery



Print & Pack



HVAC



Process & Control



Pharma Refrigerators

- PLC Controller for precision temperature and high-definition human machine interface touch panel
- USB Data logger for temperature record
- Automatic & Manual Defrost for better temperature uniformity



Stream Sterizer

- 8 Inbuilt program for process
- Printer Port is available for log print
- RS485/RS323/MODBUS TCP/IP Protocol for further SCADA BMS or IOT



CO₂ Incubator

- 2% RH Variation
- 0.1% CO₂ Variation
- 12 Inbuilt Program with time based or without time based selection



Tri Gas Hypoxy Chamber

- 2% RH Variation
- 0.1% CO₂ Variation / 0.1% O₂ Variation
- Several Setpoints for achieving CO₂/O₂ fastly
- 12 Inbuilt program with time based or without time based selection



Stability Chamber

- 2% RH Variation
- 8 Temperature calibration for humidity
- UV Sterilization with time period
- Week profile selection as well as manual run
- Adjustable light intensity by both relay and analog output



Vertical Autoclave

- 8 Inbuilt program for process
- Sterilization process is time based
- RS485/RS232/MODBUS TCP/IP Protocol for further SCADA BMS or IOT



Plant Growth Chamber

- 2% RH Variation
- 8 Sensor calibration for humidity & temperature
- Adjustable light intensity by both relay and analog output
- Electrical measurement like VOLTAGE, AMPERE, FREQUENCY, K-W, PF and energy consumption



ETO Sterilizer

- 12 Inbuilt program for process
- Printer port is available for log print
- Adjustable vacuum setpoint for air removal
- 0.5° C temperature variation with RTD sensor



Lab Oven

- Temperature range upto 300°C
- 12 Inbuilt program for process
- RS485/RS232/MODBUS TCP/IP Protocol for further SCADA BMS or IOT

Pump Boosting System

Maximize Efficiency. Ensure Reliability.

What is a Pump Boosting System?

Our Pump Boosting System is designed to enhance water pressure in residential and commercial settings, ensuring a consistent supply for all your needs. Perfect for high-rise buildings, irrigation systems, and areas with low water pressure.

Key Features:

- **High Efficiency:** Advanced technology reduces energy consumption while maximizing output.
- **Durable Design:** Built with high-quality materials for long-lasting performance.
- **User-Friendly Controls:** Easy-to-use interface for seamless operation.
- **Customizable Solutions:** Tailored systems to fit your specific requirements.
- **Quiet Operation:** Noise-reduction features for minimal disruption.

Benefits:

- **Increased Water Pressure:** Enjoy reliable and powerful water flow throughout your property.
- **Cost Savings:** Reduce water and energy bills with our efficient design.
- **Improved Comfort:** Reliable water supply for showers, appliances, and irrigation.
- **Easy Maintenance:** Simplified service access ensures hassle-free upkeep.

Applications:

- Residential Homes
- Commercial Buildings
- Irrigation Systems
- Fire Suppression Systems



Electrical Panels for STP, WTP, and ETP

Reliable Power Solutions for Water Treatment Facilities

What We Offer

Our specialized electrical panels are designed for Sewage Treatment Plants (STP), Water Treatment Plants (WTP), and Effluent Treatment Plants (ETP). Engineered for efficiency and safety, our panels ensure seamless operation and control of your water treatment processes.

Key Features:

- **Robust Design:** Built to withstand harsh environments and provide long-lasting performance.
- **Advanced Control Systems:** Integrated PLCs and SCADA systems for real-time monitoring and automation.
- **Safety Compliance:** Designed to meet national and international safety standards.
- **User-Friendly Interface:** Intuitive controls and displays for easy operation and management.
- **Custom Solutions:** Tailored electrical panels to fit your specific treatment requirements.

Benefits:

- **Enhanced Efficiency:** Optimizes energy use while ensuring reliable operation.
- **Improved Safety:** Built-in safety features protect both personnel and equipment.
- **Real-Time Monitoring:** Keep track of operational parameters to ensure optimal performance.
- **Reduced Downtime:** Reliable systems minimize maintenance and operational interruptions.



Electrical LT Distribution Panel

Reliable Power Distribution Solutions

Overview

Our Low Tension (LT) Distribution Panels are engineered to provide efficient and reliable power distribution for residential, commercial, and industrial applications. Designed to enhance safety and performance, our panels ensure seamless energy management throughout your facility.

Key Features:

- **Robust Construction:** Durable materials ensure longevity and reliability under various conditions.
- **Modular Design:** Flexible configurations to accommodate future expansions and upgrades.
- **Advanced Protection:** Equipped with circuit breakers, fuses, and surge protection to safeguard your systems.
- **User-Friendly Interface:** Intuitive controls and indicators for easy monitoring and management.
- **Custom Solutions:** Tailored designs to meet your specific electrical requirements.

Benefits:

- **Enhanced Safety:** Built-in protection mechanisms minimize the risk of electrical hazards.
- **Energy Efficiency:** Optimize power distribution to reduce energy costs and waste.
- **Easy Maintenance:** Accessible components simplify servicing and reduce downtime.
- **Scalable Solutions:** Adaptable designs that grow with your power needs.



HVAC Control Panels

Efficient & Reliable HVAC Control Solutions

Our HVAC control panels offer advanced features to manage heating, ventilation, and air conditioning systems with precision and reliability. Designed for energy efficiency and ease of use, these panels ensure optimal performance for both residential and industrial HVAC systems.

Key Features:

- **Energy Efficient:** Advanced control mechanisms to reduce energy consumption.
- **Comprehensive Monitoring:** Supports temperature, humidity, and air quality management.
- **Integrated Safety Features:** Overload, short-circuit, and over-temperature protection.
- **User-Friendly Interface:** Intuitive design for easy installation, operation, and maintenance.
- **Automation Ready:** Seamless integration with Building Management Systems (BMS) for remote monitoring and control.

Applications:

- Commercial Buildings
- Industrial Facilities
- Shopping Malls
- Hospitals
- Educational Institutions

Why Choose Our HVAC Panels?

- Proven expertise in delivering HVAC control solutions for diverse industries.
- Customization available to suit specific needs and requirements.
- Reliable customer service and technical support available.



Associated with



Protection Relay



Multifunction Meter



Digital Meter



Temperature Controllers



Timers / Counters



Power Supply



Power Supply



PLC



HMI



VFD's



Associated with



Gatways



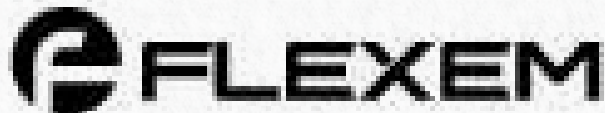
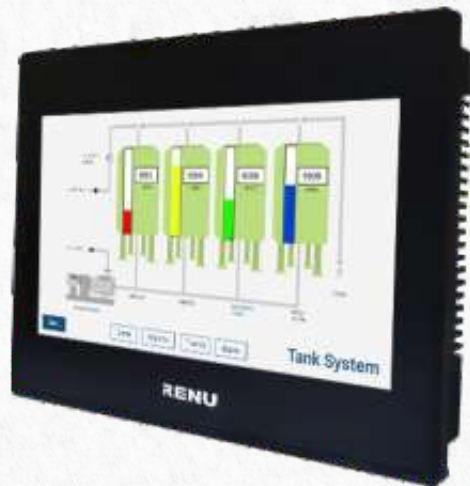
Field IO



PLC



HMI



Servo Drive



IOT HMI



PLC



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