alphatek
Engineering Limited

Industrial Automation & Engineering Co.



We Provide a Complete
Automation Solution
For Your Industry



Why Automation

- Cost Reduction
- Increased Productivity
- Better Product Quality
- Improved Working Conditions
- Improved Human Capacity
- Improved Flexibility & Safety
- Reduced Factory Lead Times
- Greater Consistency







We Provide...

- ❑ Fixed Automation
- ❑ Soft Automation
- ❑ Programmable Automation
- ❑ Flexible Automation



Hot Line: +88 01727 069 323

alphatek
Engineering Limited

Industrial Automation & Engineering Co.

Company Overview

Alphatek Engineering Limited is an entity formed to ensure trustworthy and efficient solution service for the Electrical, Power and Industrial sector of Bangladesh. The Business is focused to give empowerment for different industries & local business by sharing knowledge, experience and competitive cost effective solution. It has a strong team and lead of vast experienced engineering who have already proven their footprint as excellence for the Industries.

The company starts its journey to serve the nation & people from 2005 as **Industrial Automation & Engineering Co.** and been appearance as Limited Company in 2019. Today's Alphatek Engineering Limited has stay at this position by walking on the long path of growing. The company stats its journey as Electrical Engineering Service Company and do lots of automation and integration projects in the initial stage.



Our Mission

Alphatek Engineering Ltd. is founded in and Committed to Provide Complete Industrial Automation Business Solution to Ensure Concomitant Prosperity by Quick Response & Supply of Quality Products.



Our Vision

To be the ace Champion in the Industrial Automation Solution Sector of Bangladesh by Introducing Trustworthy and International Quality Standard Service and Product According to Latest Technology.



Core Values

- Innovation
- Cost Effective Approach
- Reliable Solutions & Service
- Professionalism and Ethics
- Desire for Excellence
- Care for Clients

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alphatek Engineering Limited

Industrial Automation & Engineering Co.

Since : 2005

Our Business Moto

LEARN , EARN & WORK For Nation

Why Choose Us:

- We provide & ensure sure solution for any kind of problem related to our company activities.
- We have a large team(around 20+ Engineers) to handle multiple problems/Service calls at a time.
- We are top most Taiwan branded product distributor for Automation Industries in Bangladesh.
- Our valuable products and services are standard, reliable , energy-efficient and popular.
- We serve our clients with affordable Technological Solutions.
- Our positive attitude to help or assist the people like-Customer and Co-worker and so on.



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Since : 2005

From The Management Desk



Engr. Md. Sahi Alamin Chowdhury

B.Sc. in Elect. Engg(IUT),MIEB

Managing Director

20+ Years Experience in Automation Sector of Bangladesh

Hi-Tech Business Entrepreneur (IAEC & Alphatek Engineering Ltd.)

Expert in Feed Mill Electrical, Automation & Feed Mill Engineering

Expert in Industrial Machine Automation & Product Purchase.



Mohammad Aslam Chowdhury

Sales Director

(Key Sales Management Person)

Around 10+ Years of Experience in Automation Products Sales for Different Industries



Engr.Md. Hasibul Islam

Technical Director

(Key Technical Person)

Around 15+ Years of Experience in Automation Solution for Different Industries

alphatek Engineering Limited

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Since : 2005

Alphatek Engineering Limited is a Leading Platform Independent Automation Engineering Services & Solutions Provider. Over the last 15+ years we have developed niche experience in the fields of Industrial Automation, Design Engineering & Plant Intelligence Solutions and Services. We Believe that all of our work, knowledge & Skill is for ensuring Customer Satisfaction & retention. Our Warranty policy of product & Service gives complete safeguard for our customer for uninterrupted operation.

Strength of Our Automation Team

- Experience in PLC, HMI, SERVO, VFD based Automation for Different Industries
- Experienced Automation Team (Around 20+ Engineers from BUET, IUT & others)
- We have Own Developed SCADA & Truck SCALE Software
- Various Layers of Platform Independent Automation Solution & Services
- Reliability & Confidentiality of Information Systems & Latest Technology Adoptability
- In-house PLC Testing Labs & Remote Login Facilities

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Since : 2005



Operations of Alphatek Engineering Ltd.

Selling of Automation Products: PLC, HMI, VFD, Servo, Sensors & Controllers, MCB, MCCB, MC, ACB

Making Expert of Substation and panel Boards: LT, HT, MCC, HDB Panel, PFI, Switchgear

Do Plant Erection on Turnkey Basic

Industrial Machine Automation: Programming with PLC, HMI ,Servo SCADA, VFD, SCALE

Our Automation Competencies

- PLC Programming
- HMI Programming
- Servo Programming
- Production Display Solution
- DCS System
- SCADA Programming
- Total Plant Automation
- Truck Scale Solutions
- IoT Solution
- Industry IR4

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Industrial Automation & Engineering Co.

Since : 2005

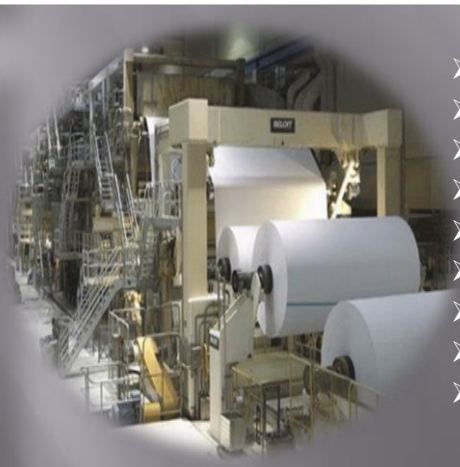
Our Experience on Industries

Feed & Agro Industry

- Feed Mills Silo Automation
- Bagging Machine Automation
- Conveyer System Automation
- Counting System Automation
- Complete Feed Mills Electrical Erection
- Complete Feed Mills Automation by SCADA
- Computerized Oil Dosing System Automation
- Woven Bag Auto Cutting Machine Automation
- Computerized Auto Dosing System Automation



Paper Industry



- Complete Paper Mill Automation
- Automatic Paper Bag Cutting Machine Automation
- Unwinder Paper Converting Machine Automation
- Unwinder Paper Converting Machine Automation
- Tissue Roll Machine Automation
- Tissue Converting Machine Automation
- Carbon less Paper Machine Automation
- A4 Cutter Machine Automation
- Winder Machine Automation

Pharmaceuticals

- Auto Clave Machine Automation
- Hot Air Stylization Machine Automation
- Auto Coating Machine Automation
- ORS Machine Automation
- Blister Machine Automation
- Tablet Press Machine Automation
- Bottle Wash Machine Automation
- Filling Machine Automation
- Chiller Automation
- Auto Water Pressure Machine Automation



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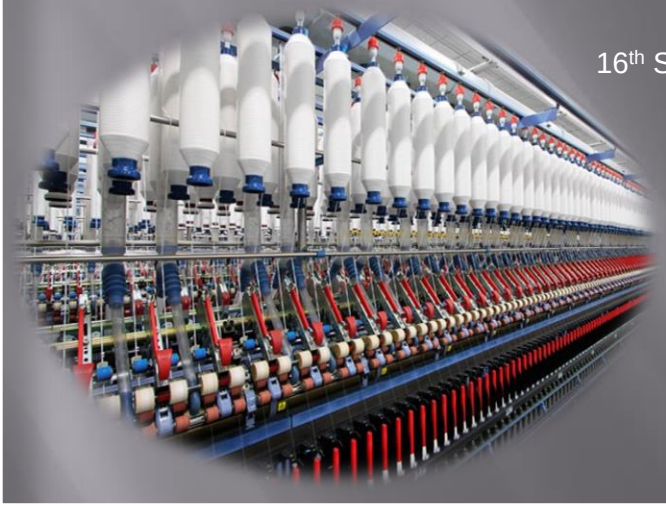
Since : 2005

Our Experience on Industries

Textiles

- Automation of Sliding Machine
- Automation of Nano Dyeing Batcher
- Automation of Yarn Dyeing Machine
- Automation of Knit Dyeing Machine
- Automation of Compactor Machine
- Automation of Multi-Mixer Machine
- Automation of Circular Knitting Machine
- Automation of Denim Yarn Dyeing Machine
- Automation of Stenter Machine
- Automation of 16th Color Printing Machine

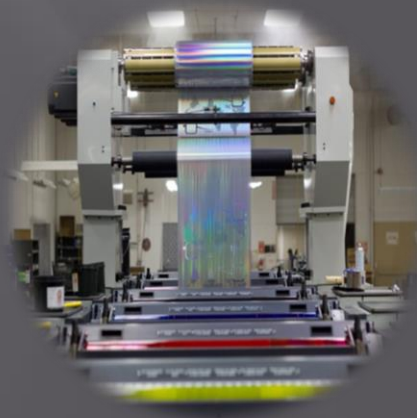




16th STEP Spinning Programming Software
Factory Lift Automation
ETP Automation
Sizing Machine Automation
Carding Machine Automation
Stenter Machine Automation
Scuziar Machine Automation
Ring Machine Automation
Raising Machine Automation
Dosatex Machine Automation
Comber Machine Automation

Printing & Packaging

- Automatic Paper Lamination Machine
- Automatic Sheet To Roll Lamination Machine
- Automatic Roll To Roll Lamination Machine
- Eight-color printing machine
- Auto Packaging Machines
- Filling machine
- Bag closing machines
- Carton sealers



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Since : 2005

Our Experience on Industries

Wire & Cable



- ❖ Wire Processing System
- ❖ Tension Control System
- ❖ Wire Winding System
- ❖ Cable Length Measurement

Cement

- ✓ Dust collector
- ✓ Control system
- ✓ Cement Silo
- ✓ Cement Packing Machine
- ✓ Bagging Machine Automation



Food and Beverage



- ❖ Checkweighers for food industry
- ❖ Sterilizers for food industry
- ❖ Dryers for food industry
- ❖ Sausage clipping machines
- ❖ Sausage production lines
- ❖ Bottle Leveling Machine
- ❖ Candy Making Machine
- ❖ Packing Machine

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alphatek Engineering Limited

Industrial Automation & Engineering Co.

Since : 2005

Our Experience on Industries

Consumer

- Shampoo Packing Machine Automation of Unilever BD Ltd.
- Glycerin Dosing Automation of Unilever BD Ltd.
- Batch Scale Automation of Unilever BD Ltd.
- Soap Line 1 Integration of Unilever BD Ltd.
- Soap Line 2 Integration of Unilever BD Ltd.
- Soap Line 4 Integration of Unilever BD Ltd.
- Soap Line 5 Integration of Unilever BD Ltd.
- Soap Line 6 Integration of Unilever BD Ltd.



Others Industry

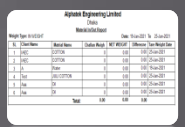


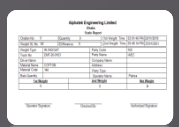
- Freeze Compressor Machine Automation For Walton
- Line Integration Automation for Shop Line Unilever
- Flat Bar Printing Machine Automation
- Servo Based Auto Packing Machine Automation
- Automatic Cement Bag Packing Machine Automation
- Automatic Bottle Leveling Machine Automation
- Glycerin Dosing System Automation
- Cable Winding Automatic

SCALE Soft

Our Own Developed **Truck Scale Management Software**
Provides the following Facilities for all kind of Industry.

- Accurate Weight Visualization
- Fraud Prevention
- Client Profiling Facilities
- Raw Material profiling Facilities
- User management
- Interactive Report Viewing & Printing Facilities
- Unlimited & Life time data(weight) Storage Facilities
- Instant Online Support







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alphatek Engineering Limited

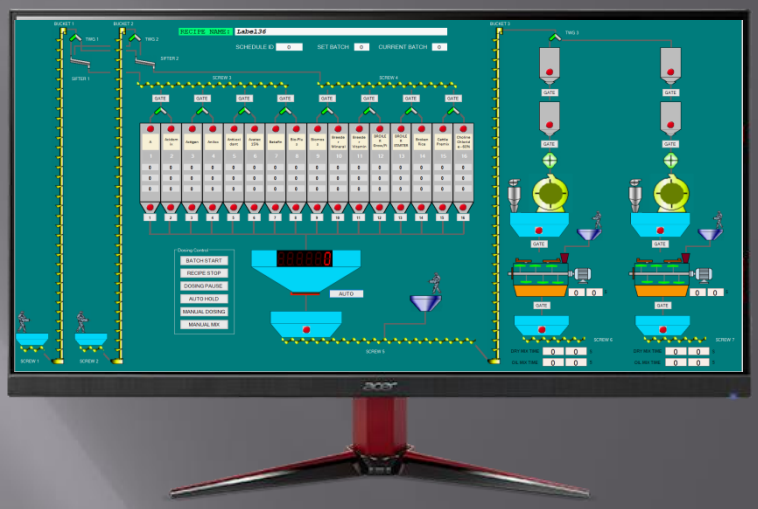
Industrial Automation & Engineering Co.

Since : 2005

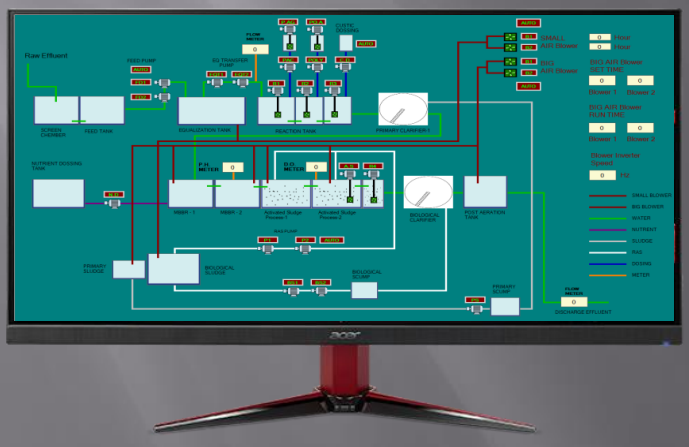
Our Expertise Areas

Our Own Developed SCADA Solution

- Requirement Wise Solution
- Data Sorting and Reporting
- Instant Online Support
- Remote Access(Optional)
- PID Control System
- Alarm Monitoring & History
- Auto Routing & Interlock
- Customize Reporting System
- Batching Report
- Oil Dosing Report
- Date Wise Consumption Report
- Shift & Batch Wise Consumption Report
- Material & Formula Wise Consumption Report
- Full Plant Monitoring & Controlling
- Customize Data Monitoring System
- All report is in Printable Format



Our Own Developed SCADA Solution For ETP Projects



- Real Time Data Logging
- Requirement Wise Solution
- Water Process Monitoring
- Water PH Logging Record
- Customize Reporting System
- Full Plant Monitoring & Controlling Facility
- DO-Dissolved Oxygen Logging Record Facility
- Water Flow Measurement and Controlling Facility
- Different Chemicals Monitoring and Recording Facility

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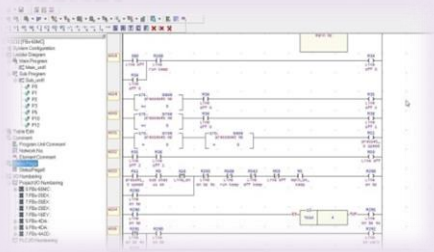
Since : 2005

Our Expertise Areas

FATEK

PLC

We are Expert in FATEK PLC, SCADA Installation Programming & Modification



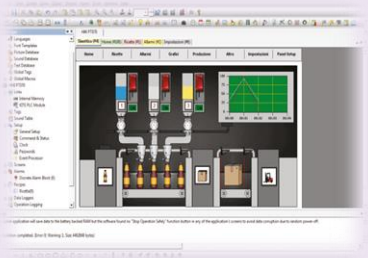
Win Pro Ladder Software
For FATEK PLC

SCADA
SCADA with FATEK PLC

HMI

We are Expert in FATEK HMI Installation Programming & Modification





FV Designer Software
For FATEK HMI

PM Designer
For FATEK HMI

SIEMENS

PLC

We are Expert in SIEMENS PLC, SCADA Installation Programming & Modification





MICRO WIN
For S7 - 200 Siemens PLC

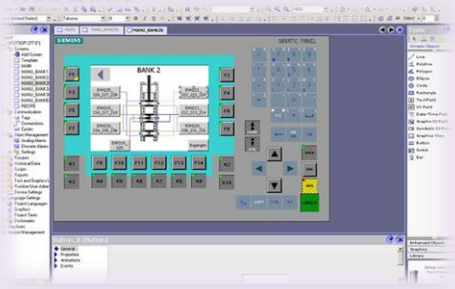
SIMATIC MANAGER
For S7 - 300, 400 Siemens PLC

TIA PORTAL–11,12, 13, 14,15, 16,17 For S7 - 300, 400 Siemens PLC

SCADA-WINCC-6,7,7.5

HMI

We are Expert in SIEMENS HMI Installation Programming & Modification



- WINCC Flexible 2008 for SIEMENS HMI
- SIEMENS Pro Save 2008 for SIEMENS HMI
- WINCC Comfort 2008 for SIEMENS HMI

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alphatek Engineering Limited

Industrial Automation & Engineering Co.

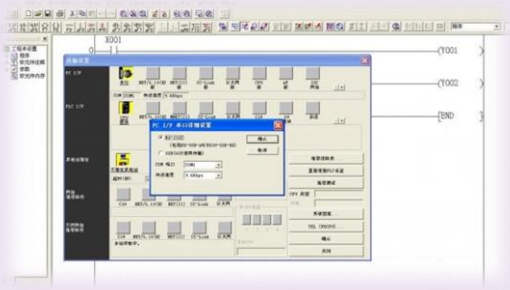
Since : 2005

Our Expertise Areas

MITSUBISHI

PLC

We are Expert in MITSUBISHI PLC Installation Programming & Modification



GX Developer 7,8

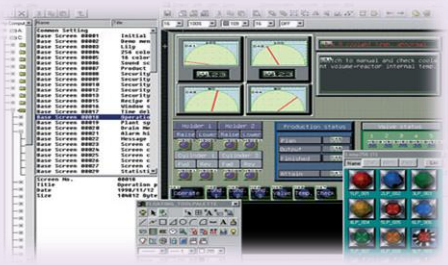
For Mitsubishi Q-Series & FX-Series PLC

GX Works 2,3

For Mitsubishi Q-Series PLC

HMI

We are Expert in MITSUBISHI HMI Installation Programming & Modification



GT Designer 2,3

For Mitsubishi HMI

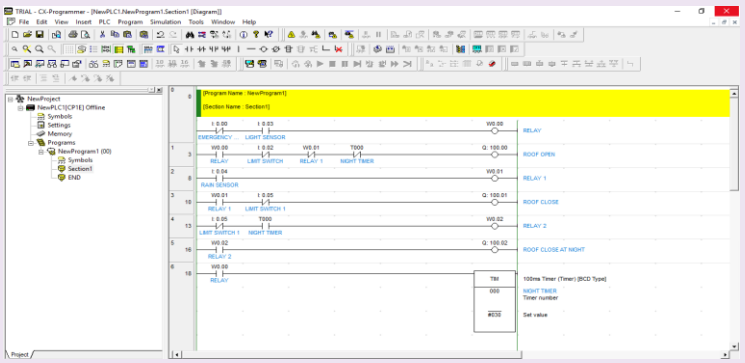
OMRON

PLC

We are Expert in OMRON PLC & HMI Installation Programming & Modification

CX Programmer

For OMRON PLC



HMI

CX Designer

For OMRON HMI

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Since : 2005

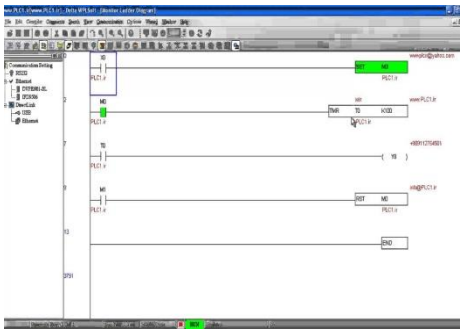
Our Expertise Areas

DELTA

PLC

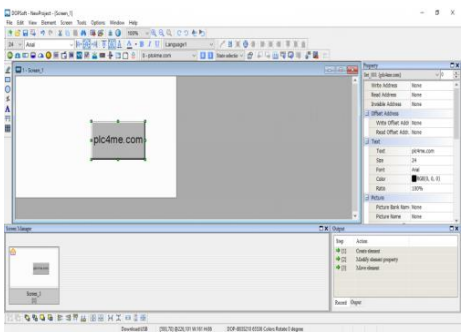
We are Expert in DELTA PLC & HMI Installation Programming & Modification

WPL Soft
For DELTA PLC



HMI

DOP Soft
For DELTA HMI



Pro-face

HMI

We are Expert in Pro-face HMI Installation Programming & Modification

GP-Pro EX Soft
For Pro-face HM

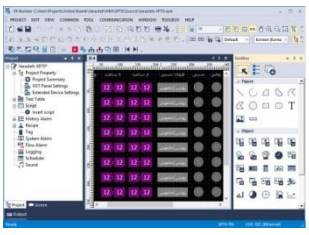


LS

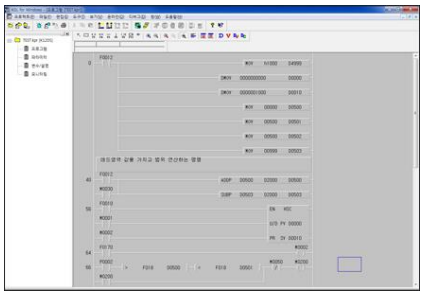
PLC & HMI

We are Expert in LS PLC & HMI Installation Programming & Modification

KGL WIN
For LS PLC



XP Builder
For LS HMI



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Industrial Automation & Engineering Co.

Since : 2005

Our Expertise Areas

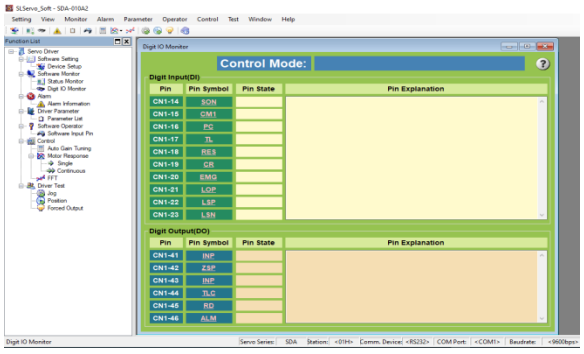
Shihlin Electric

Servo Drive & Motor

We are Expert in Shihlin Servo Installation Programming & Modification

SL Servo Software

For Shihlin Servo Drive & Motor



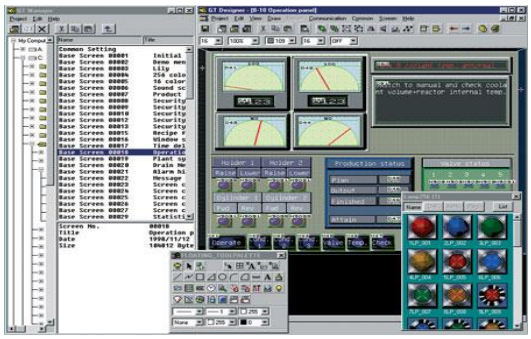
Mitsubishi

Servo Drive & Motor

We are Expert in Mitsubishi Servo Installation Programming & Modification

MR Configurator

For Mitsubishi Servo(J2,J3,J4 Series)



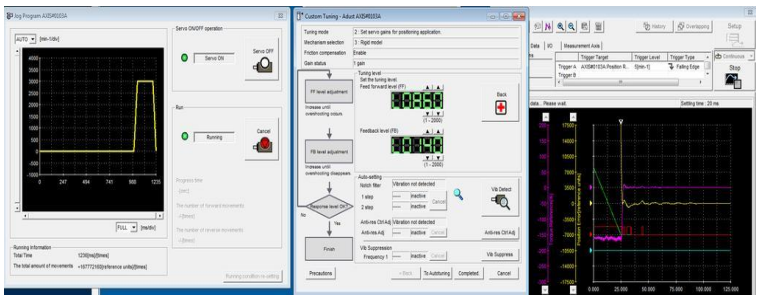
YASKAWA

Servo Drive & Motor

We are Expert in Yaskawa SERVO Motor Installation Programming & Modification

Sigma-7 Soft

For Yaskawa Servo Motor



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alphatek Engineering Limited

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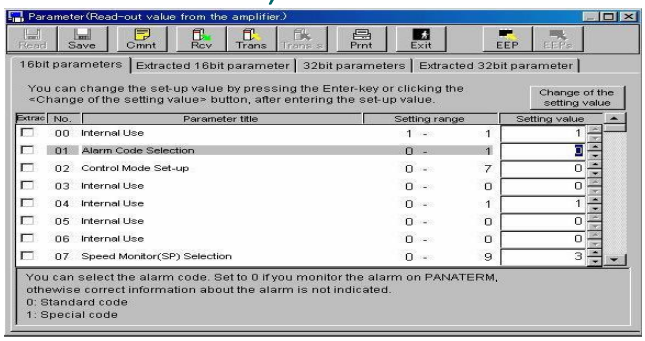
Since : 2005

Our Expertise Areas

Panasonic

SERVO Drive & Motor

We are Expert in Panasonic SERVO Motor Installation, Programming & Modification



Panaterm Soft

For Panasonic Servo Motor

Expert Areas of Communication

We are Expert In Various Industrial Communication Software & Protocols Such as-

FATEK Communication Protocol

This Protocol is each communication port of FATEK PLC to communicate with the peripherals under standard mode. Any peripherals that want to communicate with FATEK PLC model have to meet the rules, not only the hardware connection but also the software parameter setting. Besides, the message format also has to be the same with this protocol so that the PLC can respond normally.

Modbus Communication

Modbus is a serial data communication protocol used in multiple client-server applications to monitor & program devices to communicate between intelligent devices, sensors and instruments to monitor field devices using PCs, HMIs & PLCs.

Profibus Communication

PROFIBUS (Process Field Bus) is a standard for fieldbus communication in automation technology. Modbus is often used to connect a plant/system supervisory computer with a remote terminal unit (RTU) in Supervisory Control and Data Acquisition (SCADA) systems in different industry. Many of the data types are named from industrial control of factory devices, such as Ladder logic because of its use in driving relays.

Profinet Communication

Profi net (usually styled as PROFINET, as a portmanteau for Process Field Net) is an industry technical standard for data communication over Industrial Ethernet, designed for collecting data from, and controlling equipment in industrial systems, with a particular strength in delivering data under tight time constraints.

Ether CAT Communication

Ether CAT (Ethernet for Control Automation Technology) is an Ethernet-based fieldbus system. The goal during development of Ether CAT was to apply Ethernet for automation applications requiring short data update times (also called cycle times; ≤ 100 µs) with low communication jitter (for precise synchronization purposes; ≤ 1 µs) and reduced hardware costs.

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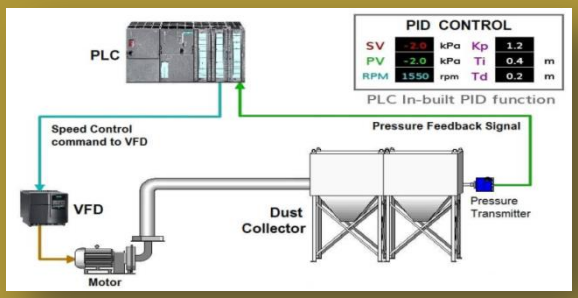
Since : 2005

We Are Expert in PID Control

A PID controller is an instrument used in industrial control applications to regulate temperature, flow, pressure, speed and other process variables. PID (proportional integral derivative) controllers use a control loop feedback mechanism to control process variables and are the most accurate and stable controller.

We are Expert in Brands PID

FATEK
Shihlin
Siemens
Mitsubishi
Omron
Delta
Panasonic



We have Done a lot of PID Projects

Motor Control
Pressure Control
Feeder Control
Current Control
Speed Control
Flow Control
Temp. Control

We Are Expert in VFD/Inverter

Our Drive Division Have a Specialist VFD Team. Our Drive Division Engineers are Highly Expert in the following functions of VFD & We have Completed a lot of VFD Projects Succefully in various Industry.

VFD Expertise Area

- VF Control
- Sensor Less Vector Control
- Close Loop Vector Control
- Torque Control
- Tension Control
- PM Motor Control
- Position Control
- Motor Control

P.M Motor Expert For :

- Shihlin Electric
- Mitsubishi
- Teco
- Yaskawa
- Panasonic

Completed Projects By VFD

- ✓ Hammer Mill Project
- ✓ Pulper (Paper Mill) Project
- ✓ Extruder Project
- ✓ Conveyor Project
- ✓ Pump Motor Project
- ✓ Crane Machine Project
- ✓ Pellet Mills Project
- ✓ Washing Machine Project
- ✓ Winding Machine Project
- ✓ RBD Machine Project
- ✓ Printing Machine Project
- ✓ Compressor Project
- ✓ TDR,DDR Project
- ✓ Hydro Machine Project
- ✓ Pulverizer Project
- ✓ Vacuum Pump Project
- ✓ Mixer Machine Project

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alphatek Engineering Limited

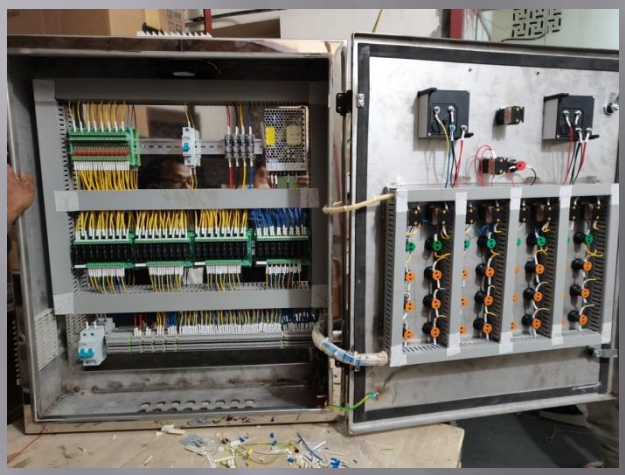
Industrial Automation & Engineering Co.

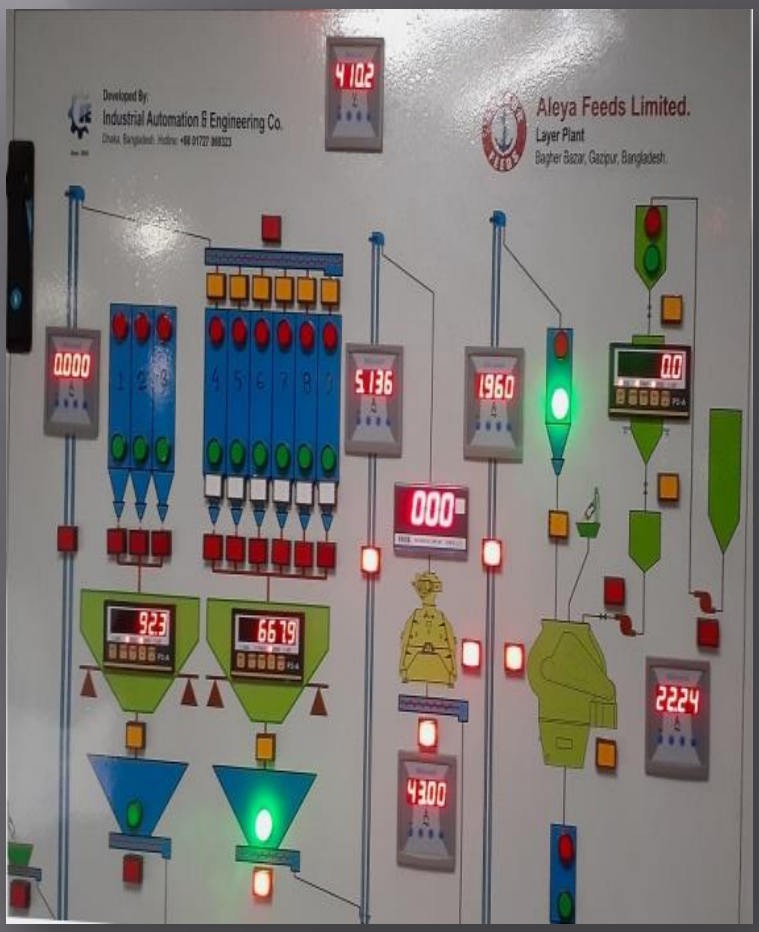
Since : 2005

We are Expert in MCC Panel Making

- Electrical Drawing Expert
- Control Wiring Expert
- Power Wiring Expert
- Controlling Expert
- Ferrule Marking Expert









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alphatek Engineering Limited

Industrial Automation & Engineering Co.

Since : 2005

SERVO EXPERTISE AREA

- Position Control System (Incremental)
- Position Control System (Absolute)
- Speed Control System
- Torque Control System

Completed Servo Related Project

- Compressor Winding Machine
- Press Break Machine
- Packing Machine
- Ziplock Machine
- Bottle Level Machine
- ORS Machine

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alphatek Engineering Limited

Industrial Automation & Engineering Co.

Since : 2005

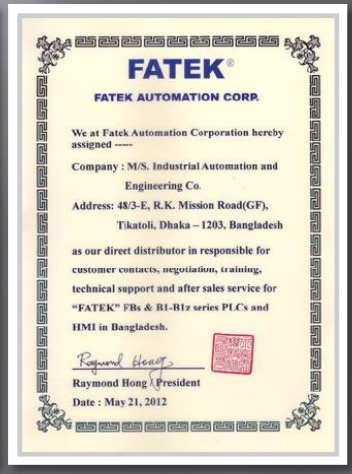
Our Brand

Shihlin Electric | FATEK | FOTEK | FineTek | mavin | SCALE | SCADA | BETTER | YUNFENG INCUBATOR Since 1978

Distributor Certification















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alphatek
Engineering Limited

Industrial Automation & Engineering Co.

Since : 2005

At a Glance

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