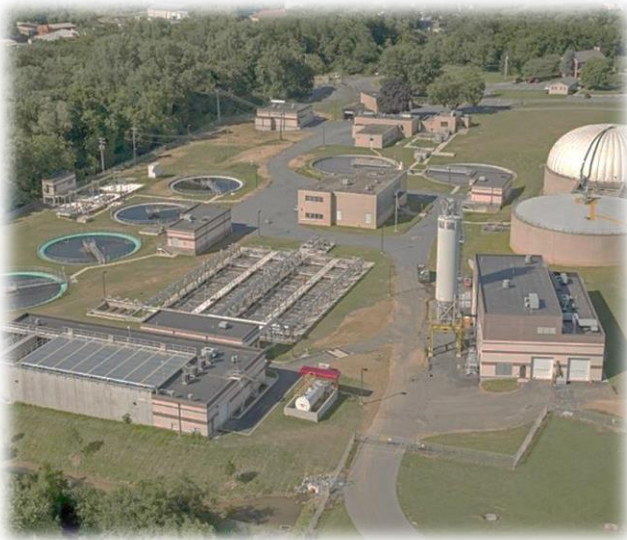# Techon
Automation and Communication

Industrial Instrumentation, Electrical and Automation Products, Systems and Monitoring Solutions...

Product & Engineering Solutions & for various types of Industries

We are solution Provider & Integrator for Honeywell, Phoenix Contact & Ibridge Product

We committed to providing personalized service, can provide the complete product solutions for your Industrial and Electrical applications...!!

About Techon

Techon has extensive experience in integration of various cost effective solutions with best range of available products. These solutions with new technologies reduce operating expenses, lower total cost of ownership and increase return on investment. We offer products & solutions in Industry & government sector with specialization in Wireless data Communication, SCADA, IT Powered Automation, IOTS, PLC/DCS, Telemetry Interface/Signal conversion, Fiber, Security solution, and many more for different segment and complete range of cutting-edge automation & communication technologies with Suitable product lines and professional approach will guarantee the most affordable cost to every requirement.

We are a complete solution provider in the field of Industrial Automation, communication Instrumentation and Electrical.

Following are the key Industrial segments, where we are providing our solutions and Products

- **Power Plants (Thermal, Hydro)**
- **Solar Power Plant Scada Monitoring**
- **Furnace & Boiler Automation**
- **Sugar Industry Automation**
- **Cement (Stacker Reclaimer Wireless System, Conveyor Systems)**
- **Phrama & Chemical Industry**
- **Oil and Gas Industry**
- **Water (STP, WTP & Distribution Automation)**

We provide comprehensive engineering solutions for various applications in Sugar & Distillery Processing Lines. We have commissioned a Various PLC/DCS system covering applications in furnace automation, boiler , sugar ,refining process including Filtration, Batch Pan Control and Product handling.

FIELD INSTRUMENTS

HONEYWELL SMARTLINE TRANSMITTERS

Honeywell Smart line Smart Pressure Measurement System set the standard for total performance in harsh Process environments featuring The Industries Most Modular & robust Transmitter

- **Accuracy up to 0.025%**
- **Turndown ratios up To 400:1**
- **Response Time Up to 90ms**
- **Hart Communicator, SMV, Flow meter**

HONEYWELL DIGITAL CONTROLLER & RECORDERS

- **Single Loop & Multiloop Controllers**
- **Chartless Recorders**
- **Circular Chart Recorders**
- **Programmers**
- **Herculine Electrical Actuators**

HONEYWELL SENSING & CONTROL

- **From Snap Action, Limit, Toggle,**
- **& pressure switch to Position, Speed & Air Flow Senores**
- **Range Of Products : Sensor, Switches, Control & monitors, Test & Measurement Products, Barcodes scanners, Wireless Switch & sensors**

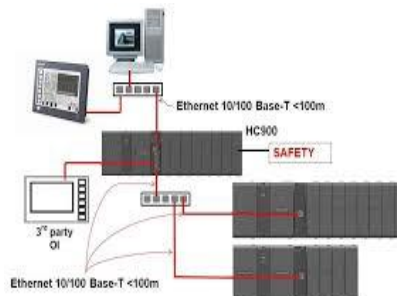# Honeywell Control System

PLC & HC900 SYSTEM

- **Control edge HC900 Process Control System**
- **ML PLC System**
  --Ml200, ML200R & ML50
- **Field networks / Process control networks**
- **Human Machine Interfaces (HMI) ; Remote termination Unit (RTU)**
- **IOT & IIoT enabled Product**
- **Experion® HS is a powerful software platform that incorporates innovative applications for Human Machine Interface (HMI) and supervisory control and data acquisition (SCADA).**
- **Application- Boilers, furnaces , WTP, Reactors , Pilot operations, Kilns Etc**

DCS & ESD SYSTEM

- **Plant curies DSC Control System**
- **C300 & IO Components**
- **ESD- Contol edge Safety system with**
- **Easy to Use and Configure**
- **Safety Integrity Level (SIL) IEC 61508**
- **High performance input/output (I/O) design**
- **Profit Loop algorithm for improved control performance and simplified maintenance**
- **IIoT enabled, Safety peer protocol**
- **SIL2 certified Universal IO with SOE, Line monitoring, NAMUR, HART ready**

Honeywell
PlantCruise by Experion®

PROVEN. PURPOSE-BUILT. EASY-TO-USE.

PLANT CRUISE C-300

HONEYWELL GAS DETECTION

PORTABLE GAS DETECTORS

- Wde Range Of Portable Gas Leak Detector (BW Technologies & RAE Systems) And Connected Solutions That Offer Long Run, Reliability, Signal Button Operation, Affordability, & Incredible ease to use

- Comprehensive range of wireless Instruments & Area Monitors For Quick Deployment Solutions

GAS CONTROL SYSTEMS

- Various Controllers To suit Any Requirement Raining From Single Detector Controller To Multi Channel Controller To SIL2/SIL3 Systems

- Dedicated Trained Team o Service Personnel to help for Selection, Installation & Commissioning Of Gas Detection System
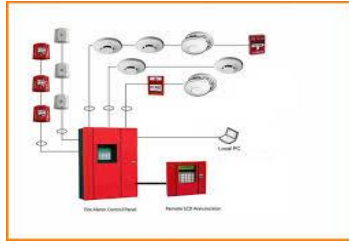
ONLINE GAS & FLAME DETECTORS

- Online Gas Detection For Hydrocarbons, Toxics & Volatile Organic Compounds Ranging From Point Type Detector to Open Path Gas Detectors

- Wide Range of Multi Spectrum Optical Based Flame Detector To detect all Kind of hydrocarbon fire.

- Hi-tech Gas Detector Which Can Be Used In LABS Where Very Low Level Precise Measurement is required

- Commercial & Residential range of Gas Detectors

HONEYWELL FIRE ALARM & SECURITY SOLUTION

Fire Alarm System

MORLEY IAS
FIRE SYSTEMS
by Honeywell

ESSER
by Honeywell

System Sensor

NOTIFIER
by Honeywell

- **Morley, System Sensor, ESSER & NOTIFIR**

- **Fire Protection And Intelligent managemen systems.**

- **Redundancy & Zero breakdown**

- **SIL certification**

- **We provide Supply, Installation, commissioning and after sales services. For industries & Home security solutions**

- **Wide product range in camera DVR/NVR, intercabling & monitoring**

- **Best optimised solution for materiel handling systems**

Video Surveillance System

UPS System

NUMERIC
A Group brand **legrand**

- **We provide Supply, Installation, commissioning and after sales services. For industries & Home UPS solutions**

- **The products are available across Line Interactive, Single Phase and Three Phase for industrial, commercial and residential needs and customizable at every scale.**

- **Wide product range UPS with several innovative features like front-end access, remote operation capabilities and modularity which makes them thoughtful and ideal for a variety of uses and industries**

WIRELESS SYSTEM SOLUTION

RF WIRELESS

- work in license free 5.8 GHz frequency band
- Low maintenance cost and easy to troubleshoot.
- To avoid losses due to link failure, redundant parallel link provided to continue with running process which increases production and avoids breakdown.
- Single hardware should be able to configured in Master and Slave modes
- Technology specializes in the development of communication solutions compatible with the large automation suppliers' controllers such as Rockwell Automation, Honeywell, Schneider Electric, ABB, Siemens,
- working in harsh marine environment with availability of 99%
- Stacker Reclaimer is controlled and monitored using wireless communication system.
- Seamless & robust communication is achieved between PLC & SCADA

GSM WIRELESS

- Reliable communication 3G,4G
- Secure transmission between control room and stations
- Remote maintenance without roaming charges
- Web Based, Low Cost and Modular Home Automation System
- Automatic alerts via SMS and e-mail for Events
- Monitor Different Field sensors and switch relays on dash board
- Remote Upload & Download PLC program
- Application- Water pumping remote control, facility Management, Fire & Security Management, Environmental Etc.

PHOENIX CONTACT PRODUCT & SOLUTION
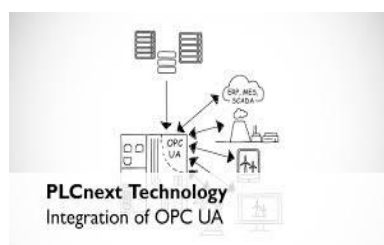
Automation & Control Product

- **Global market leader and innovator in the field of electrical engineering.**
- **With 60,000 products find your solution.**
- **Automotive Industry, Solar Energy, Infra, Water Power & Transmission**
- **Transparent energy monitoring The fastest way to measure energy use**
- **IT powered automation allows for fewer faulty products**
- **Intelligent safety solutions for high system availability**
- **Intelligent switching, protection, and measurement**
- **HMIs and industrial PCs**
- **e-mobility charging applications**

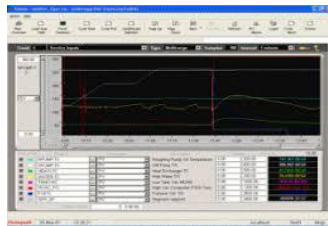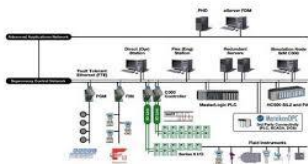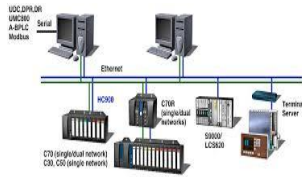## PLC next & Industrie 4.0 The intelligent production of tomorrow

- **Phoenix Contact offers technologies that help you achieve intelligent production. The industrial revolution in the digital age!**
- **The entire product range is developed with Industrie 4.0 in mind.**
- **PLC next Technology The ecosystem for limitless automation**
- **Simplified engineering process, thanks to the use of automation modules and object-oriented programming**
- **Time and cost savings, thanks to fully integrated programming in a single interface**
- **PLC next Store – An open software store for automation**
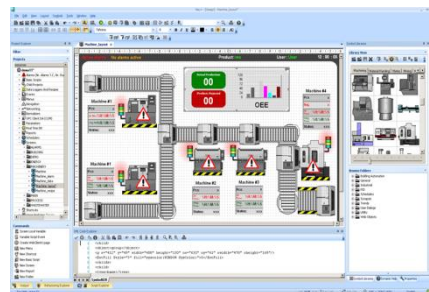- **Open and safe automation Programming intelligent solutions**

PLCnext Store
install unexpected possibilities

PLCnext Technology
Designed by PHOENIX CONTACT

Industry 4.0
INTERNET OF THINGS NETWORK
CUSTOMIZE CUSTOMER WANTS
SMART FACTORY SOLUTION
AUTOMATION ROBOTS

PLCnext Technology
Integration of OPC UA

EXPERION HS & VISU+ SCADA SOLUTION

Experion HS

- **RELIABLE with High-Performance, Stable and Secure.**
- **FLEXIBLE For a Wide Range of Applications**
- **SCALABLE Growing With You**
- **EASY TO USE Efficient Implementation**
- **EFFICIENT Better Operator Effectiveness and**
- **Higher Profitability**
- **Quick Configuration, Connecting the Operation, Easy-to-Use Displays, Powerful Trending, Built-in Reporting, & Integrated Alarm and Event Management**
- **Built-in Experion Historian, Full Virtualization, Electronic Signatures, Recipe Management, Gas Operations Suite**

Visu+ Scada

- **Effective engineering in a modern environment**

- **Full SCADA (Supervisory Control And Data Acquisition) function with visualization, trend representation, and alarm management**

- **Data logging, trend display, and recipe management**

- **Fully scalable process diagrams for using one design on different devices and monitor sizes**

- **Multilingual software and projects, thanks to Unicode support and online selection**

- **Access protection with user management**

- **Best Web Client features with easy installation**
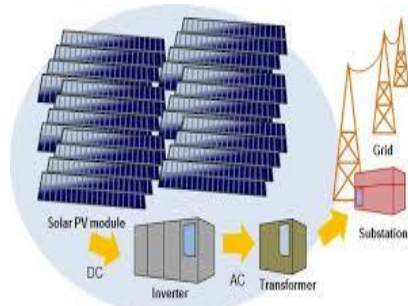
- **OPC Complained**

Our Working experience in PLC, DCS, SCADA, Networking, Hardware, and software Process control instrumentation systems.

- **3rd Party PLC Interfacing to HPM via Serial Interface (Modbus).**
- **Upgrades & Serial device interfacing with HPM SI and C300.**
- **Quick Builder database (Controller, Channels and Points) generation.**
- **Expert on communication protocols such as Modbus, IEC101-104, OPC etc.**
- **Experion/ Visu+ Development Expertise.**
- **System Load Optimization and Monitoring.**
- **Optimizing performance and functionality of HMI Displays.**
- **Safe view Configuration as per customer requirement.**
- **Interfacing between Honeywell DCS Experion and Other Systems**
- **Honeywell Fail Safe Controller Programming and TPS Interfacing.**
- **Honeywell Plant Cruise/C-200 controller Programming and Implementation.**
- **Honeywell HMI Graphics and Shape Development.**
- **Create custom General Script Holder (GSH) for custom shapes.**

The scope of work shall include design, engineering, procurement, supply, fabrication, Inspection, packing, transportation to site, testing, calibration and commissioning of all instrumentation equipment, cables, pipes, auxiliaries and erection hardware necessary for completion of Instrumentation & Automation work for the different types of Industries.

Tools and Software Used

- **Honeywell Experion and HMI web display builder. Configuration Studio. Quick Builder ,Safe view & GUS Display Builder ,EServer**
- **HC-900,ML-200R, System & software**
- **Honeywell Plant Cruise**
- **Visu+ Scada, PC Works, PLC Next**
- **Electrical AutoCAD**

Solar Power Plant Automation

Power Transformer & Breaker

IIot/ Industry 4.0

Our System Services

We offer the following range of services in Industrial Automation :

- **Testing & Calibration of filed instruments & Gas detector**
- **After Sales services /AMC of Filed instrument ,Automation system & wireless equipment**
- **Site survey & system, BOQ, designing including installation for Gas detector, Fire alarm /CCTV /Access Control**
- **AMC for Fire alarm /CCTV /Access Control**
- **Training to customer Engineers/Technicians.**
- **Study the process and customer requirement**
- **Design & Engineering of Electrical & Automation system**
- **Selection of PLC, DCS, AC/DC Drives and other components**
- **Development of PLC & DCS software**
- **Design the Control Panel Integration of the system**

We offer Power plant Automation solutions for both conventional Power Plants like Thermal Power plants as well as non-conventional Power plants like Solar, Wind Power, Hydel Power as well as Bio Diesel plants. The Power portfolio includes variety of applications like;

- **Power Generation including Boiler Automation**
- **Coal Handling Plant, Ash Handling plant**
- **Complete Instrumentation package for Power plant**
- **Solar Power Plant Automation**
- **Substation Automation**
- **Energy Management Solutions**
- **Power Distribution**

Techon can provide electro-mechanical, automation and instrumentation solutions including pumps, Valves, motor starting equipment, drives, breaker panels, electrical systems and components, substations system integration, instrumentation, control and monitoring equipment, Supervisory Control and Data Acquisition (SCADA) solution, all under one roof.

Power Substation

Instrumentation Control & Process

Industrial Wireless system

Techon Automation and Communication

Industrial Electrical and Automation Products, Systems and Monitoring Solutions...

Solutions for the
Renewable Energy / Solar industry

Real simple. Real smart. Real performance...

Solar Plant Supervision & Analytics:

Faced with growing challenges and greater bottom line responsibilities, those who manage large, solar generation facilities need a comprehensive solar plant management system that breaks through traditional information silos to:

Optimize your Daily energy generation.

Maintain your plant healthy and productive.

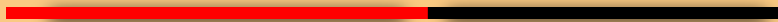**Solar power plant Scada access from Anywhere by using web-client.**

Multiple modes of Real time alarms and Events.

Scheduled Report Facility.

Plant Real Time / Historical Trends, Customized Reporting Facility (Daily, Weekly, Monthly and Yearly).

Scada Monitoring Solutions:

❖ **Wireless and Wired Scada Systems for Local Solar Plant Operations.**

❖ **Wireless Solution for String Combiner Box – Inverter Room – MCR.**

❖ **Central Monitoring System Dashboard for Solar PV Plants.**

❖ **Remote monitoring system for rooftop solar plants.**

❖ **Single Window Automation solution for Entire solar plants.**

❖ **Access from Anywhere.**

❖ **Wind Substation remote Monitoring.**

❖ **Solar Operated Mobile towers / Telecom Tower remote monitoring.**

❖ **Virtual Design Construction & Detail Engineering.**

❖ **Solar Power Plant Operation and Maintenance.**

❖ **Electrical and Marshalling Panel Wiring Development.**

Clients

EagleBurgmann — Rely on excellence

Kirloskar

Honeywell — THE POWER OF **CONNECTED**

Forbes Marshall

SHREENATH MHASKOBA SAKHAR KARKHANA LTD.

MITSUBISHI ELECTRIC — *Changes for the Better*

ADITYA BIRLA — **UltraTech**

SADHU VASWANI MISSION — OPEN YOUR HEART TO DADA

Nandini Enterprises — *Edge Of Changing Future*

Emcure PHARMACEUTICALS LTD.

Kleenair Systems P. Ltd. — Delivering Quality Products is our Habit

ION EXCHANGE (INDIA) LTD — THE POWER BEHIND WATER

ZENITH TECHNOLOGIES — A **Cognizant** Company

म्नटीपीसी NTPC

PG Power Ventures Plc

moserbaer — REWRITING THE FUTURE

IFI Ionisation Filtration Industries Pvt. Ltd.

HTS — Complete Solutions for Switchgears

SHOOTFIRE

ujaas own your sun — Ujaas Energy Ltd.

REHPL — Harnessing Nature

LUSAIL

MR MINDARIKA

Forbes Marshall

ARTEE

ECLIPSE — Innovative Thermal Solutions

INOX AIR PRODUCTS

wipro

म्नटीपीसी NTPC

Many More............

Thanks