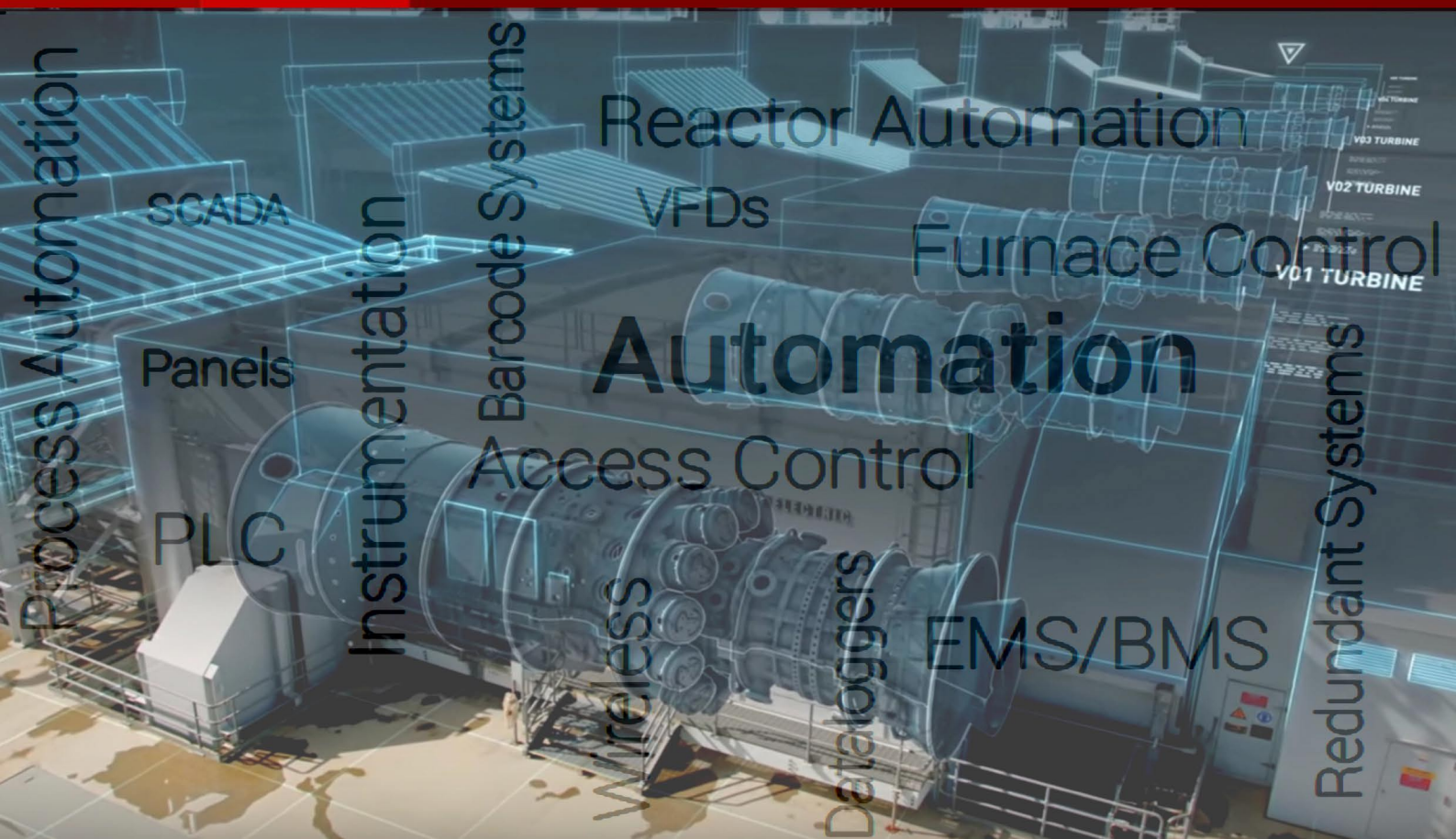


AUTOMATION SOLUTIONS



Control Panels

VFD & STARTER PANELS



- AHU / CHILLER control
- Pump / Motor / Blower Speed Control
- Reactor Cttontrol
- Conveyor / Crane System

- Star / Delta DOL Starters
- Remote/ Local/ Bypass Control Options
- 1-400 HP drive Panel
- AB / Danfoss / Mitsubshi / ABB / Fuji / Delta

THYRISTOR PANELS



- With Communication Options
- Bypass facility with safety interlocks
- Universal Control Input
- Designed Control for outdoor instalations
- point & profile control
- single / two / three phase loads

- Phase angle / Zero cross over voltage
- Voltage 220/230/480 V
- Amp Rating: 30-1000 Amps
- Multizone Furnace Controller
- Star / Delta With Neutral
- 0-100% modulated heater output

ANNUNCIATOR PANELS



- Process alarms
- Security gate indication
- Process sequence indication
- Safety indication
- Generator system

- 24 VDC / 110 V AC, 230 V AC
- Optional RS485 communication
- Operational sequence :Auto, Manual, First-up, Ring back
- Multi-colour windows
- 8/16/24/32/48 Window annunciator

Control Panels

FLAMEPROOF PANLES



- Gas group: I / IIA / IIB / IIC
- Hooter with / Without acknowledgment
- Zone protection : Zone 1 & Zone 2
- IP protection IP65, IP66

JUNCTION BOXES AND PDBs



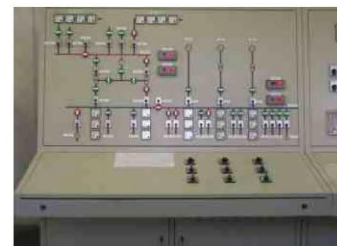
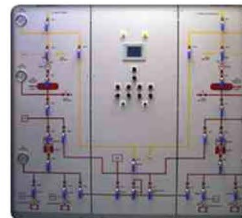
- SS316 / SS304 / MS JB with gasket trims
- FLP Junction boxes
- Top / Bottom / Side Cable entry
- Aluminium / Copper bus option

LARGE DISPLAY PANELS



- 7- Segment Display
- Display Size 2", 4", 6", 8"
- Static & Scrolling Display
- Input Type: Universal, RS485

MIMIC PANELS



- Multi-Colored LED
- Vinyl board for Mimic
- Protective Acrylic Cover
- Annuciation System

Control Panels

TEST BENCHES



- 16 / 18 gauge MS / SS body
- Modular & ergonomic design
- Option for CT, DVT, Calibrator / Soldering, testing lamps etc.
- Customized for maintenance / Calibration / R & D labs

APFC PANELS



- Thyristorised or contactor based
- Modular to upgrade, up to 500 KVAR
- Capacitor : L&T, ABB, Epcos
- PF controllers : Epcos, L&T, Schneider

SS PANELS



- Ideal for Pharma Industry
- 14 SWG (Doors) 16 SWG (Body)
- IP44, IP52, IP55 and IP65 protection classes
- RAL7032 and RAL7035 paint shades

MCC & PCC PANELS



- Available in standard & customized specifications
- Includes all ACBs, MCCB etc
- MCC, PCC panels
- Multi compartmental design

Environmental Monitoring

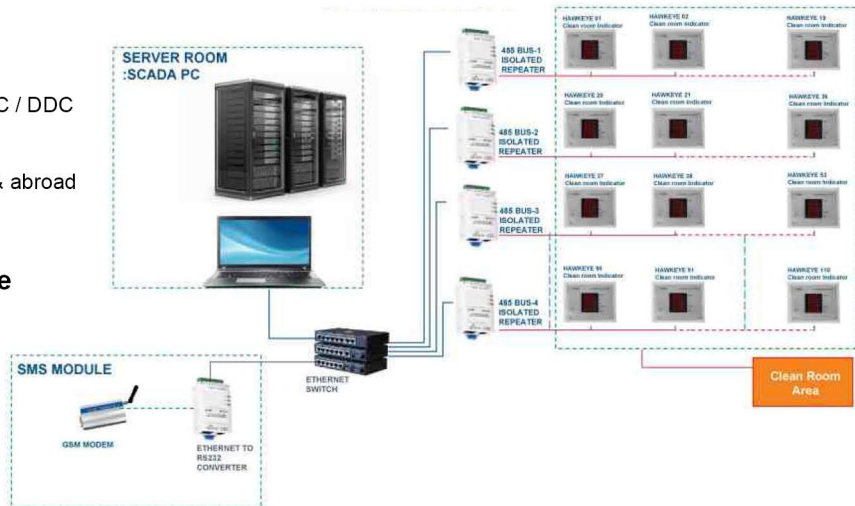
EMS

Integrated system involving

- Monitoring and logging of environmental data
- All field instrumentation including RH + T Tx, DP Tx, Switches, Clean room indicators
- 21 CFR Part 11 compliant software
- Multiple architecture with and without PLC / DDC
- Logging interval from 1 minute onwards
- Remote PC based viewers
- 100's of successful installations in India & abroad
- Wired & wireless systems
- Optional energy monitoring

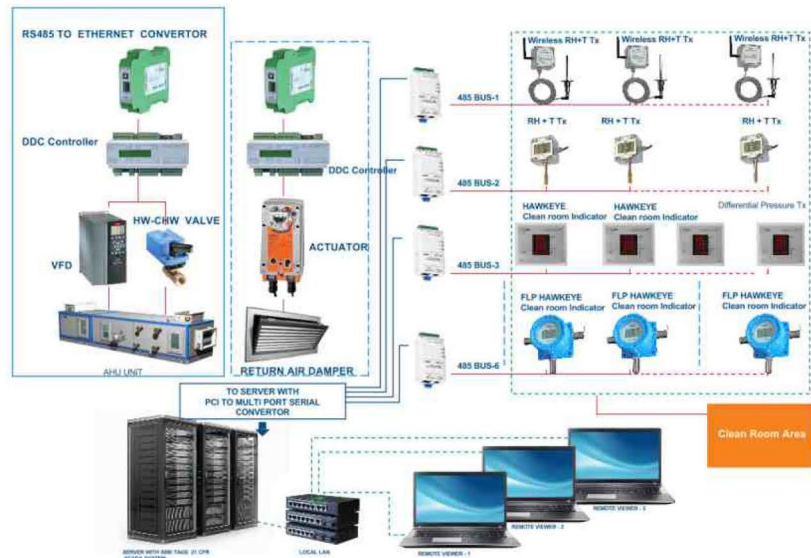
EMS Software With Features Like

- Mimics for Instruments & Areas
- Real-Time / Historic Trends / Alarms
- Extensive Admin Capabilities
- User Configurable Reports
- High Level Security Features
- SMS & System Alert



BMS

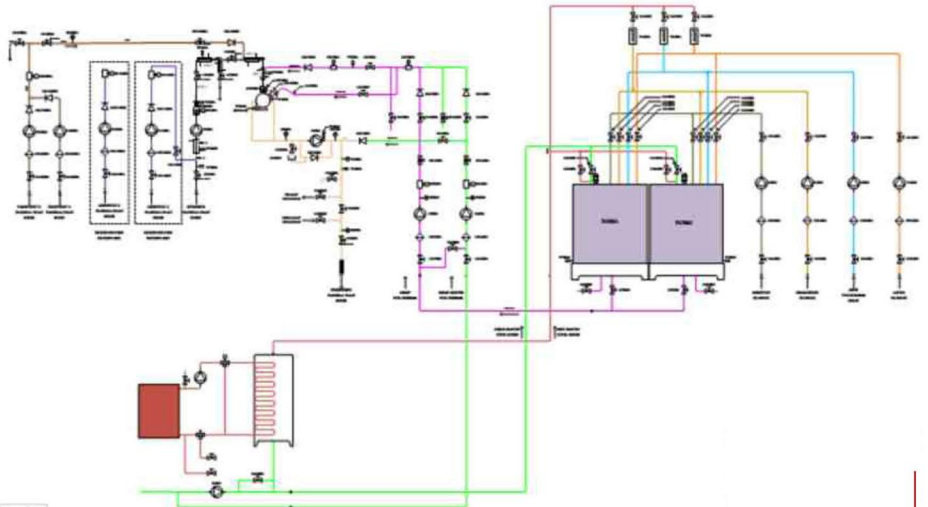
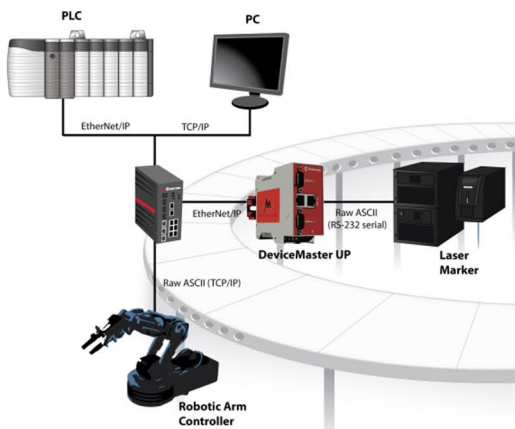
- Precise Control of Various HVAC Components
- DDC / PLC Based Systems
- Room Level Control of RH Temperature & Differential Pressure
- Energy Saving Through Use of VFDs
- Thyristor Control For Electrical Heaters
- Integration With Chillers, Access System & CCTV.
- 21CFR Part 11 Compliant System
- Turnkey Solutions Consisting of Field Instruments, Automation and Software
- Systems For Comfort as well as Technical HVAC
- Detailed Graphics and Reports Greatly Reduce Training Requirement



Factory Automation

PLANT AUTOMATION

- Development of control philosophy
Control system based on SCADA, PLC, VFDs etc.
- Hardware supply, programming
- Integration of subsystems like Blower, Pumps, chiller, evaporator, storage tanks etc.
- SCADA system up-to 10000 tags
- Mimics for machine operation
- Real-time / Historic trends / Alarms
- Reports for process parameters
- Remote viewer over LAN/Internet



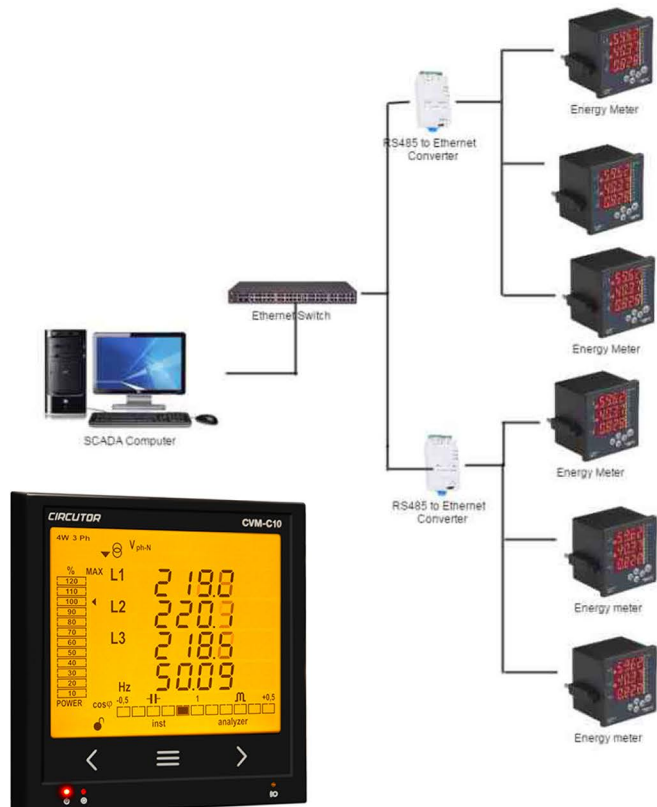
Programable Automation Controller PAC

ENERGY MONITORING SYSTEMS

- SCADA based 24 x 7 monitoring system
- Communication using MODBUS or any other communication protocol
- High quality graphics & customised reports
- Voltage, current, KWH, harmonics
- RS485-Ethernet based communication
- SMS alert, auto generated email reports



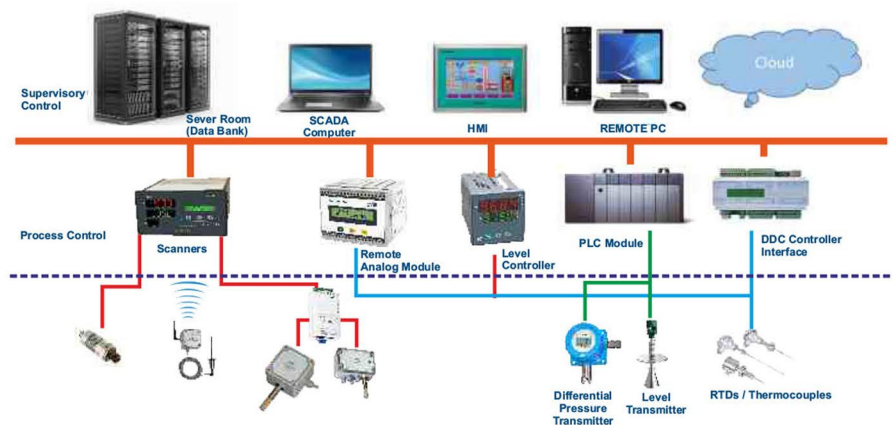
Energy Analyzer



Process Automation

PROCESS MONITORING SYSTEMS

- Full range from simple to complex system
- Stand-alone, networked, redundant architectures
- Turnkey projects consisting of SCADA, PLC, field instruments, control panel, cabling
- PDF, Excel reports for Batch / Shift / Product analysis
- Software / Hooters / SMS based alarms and alerts
- Simple & user friendly to operate
- Local, remote and cloud-based access

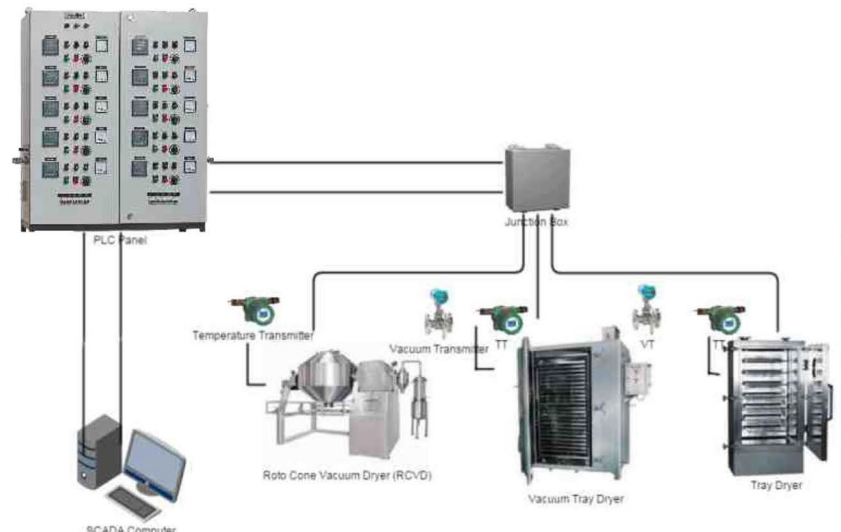


DATA ACQUISITION SYSTEMS

- SCADA / datalogger based systems
- Scalable from less than 10 to few thousand points
- Integration & communication through different technologies like MODBUS, RIOs, Protocol converters, scanners etc.

Examples

- Assembly line batching system
- Barcode reading and recording system
- Multiple scanners and datalogger
- Condition monitoring for engine testing
- Plant utility monitoring systems

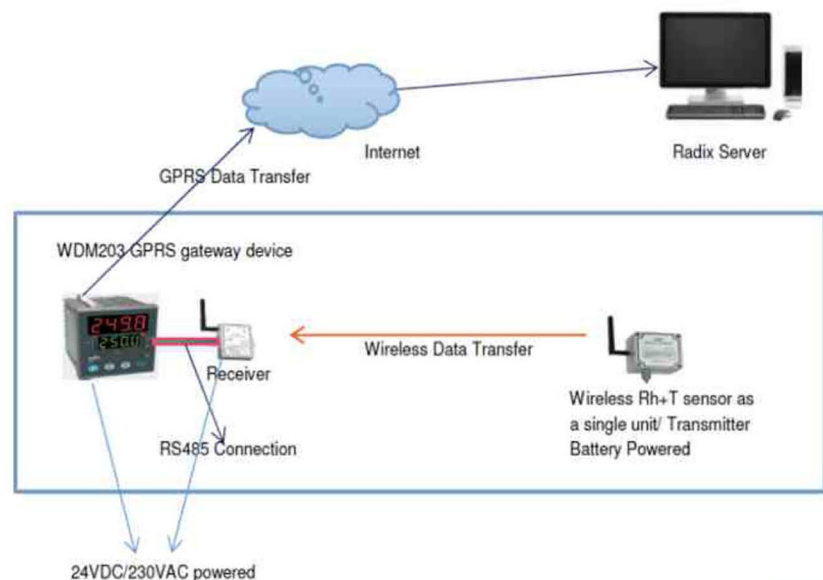


DATALOGGING SYSTEMS

- Radix has a wide range of datalogging equipment, with a mix of standard and custom engineered solutions.
- Dataloggers from 1 to 100s of channels

Products

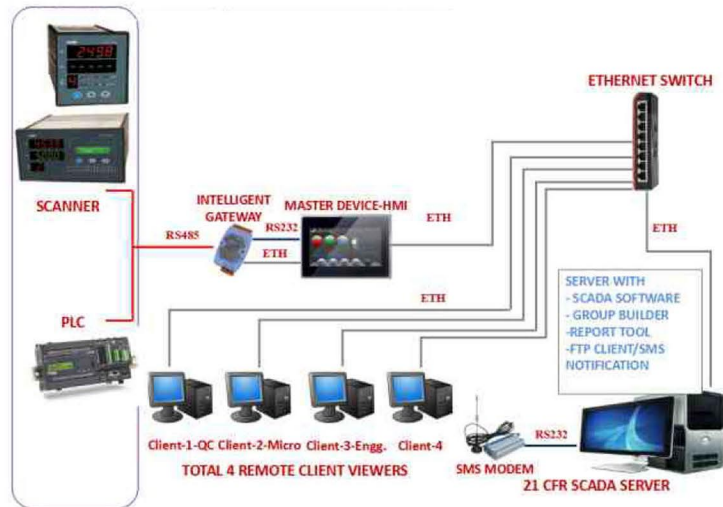
- Paper & Paperless chart recorders
- Modules with communication interfaces- Touch screen type
- Multi instrument/ scalable systems - rSCADA/Ellipse
- Wireless system - where cabling etc. is difficult or very fast installation is required
- PLC/Scanner based systems for extremely fast datalogging
- Autonomous battery operated GPRS/ Cloud based systems for remote locations



Industrial Automation

ONLINE-OFFLINE REDUNDANT SYSTEMS

- Redundant system to ensure zero data loss
- Radix multi master device transmits data to offline & SCADA system
- HMI based offline system will store transient data
- Offline system will seamlessly upload transient data when SCADA is online again
- Up-to 1 GB of transient data
- Multiple viewer for simultaneous remote viewing



MATERIAL HANDLING SYSTEMS

- RFID and Barcode based system
- Asset tracking, real time location and management features
- PLC based control systems with SCADA interface
- Complete solution including readers, tags and mobile computers and software
- Operation of multiple standards like EN14803, DIN30745, ISO15693

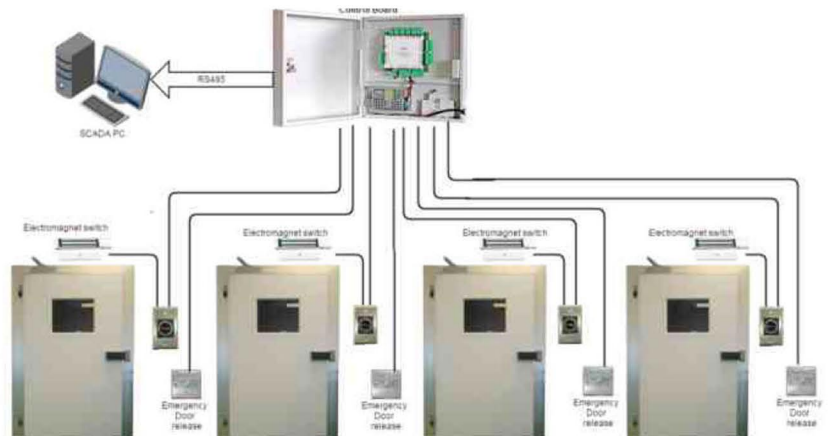
Applications:

- Bin management
- Asset tracking
- QC process tracking
- Ware house management



DOOR INTERLOCK SYSTEMS

- Powerful Radix controller for interlocking upto 2/4/6 doors
- Field programmable, through software
- Audio / Visual indication
- Multiple options for Bio- metric system, Card readers
- MODBUS communication
- Provision for emergency exit
- PC configurable parameters
- Interfaces for fire detection etc.
- FLP construction



Flow Measurements

Water Level And Water Flow Measurements

Electrologic is served a leading ultrasonic sensors logics and control. Used in highly sophisticated enviromental and industrial applications that measure remote bodies of water like tanks. These systems typically involve remote. Solar-Powered measurements to centralized managment system via cellular, satelite or radio communications, long-term durability. Dlgital communication and rapid time to first measurement systems practical.



Long Range Continuous
Laser Level Transmitter



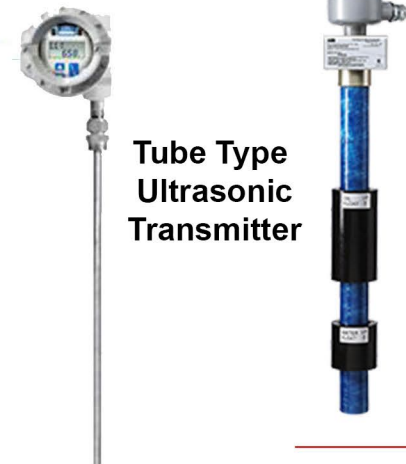
Electromagnet
Water Flow Meters



Solennis SL77 ABB Watermaster



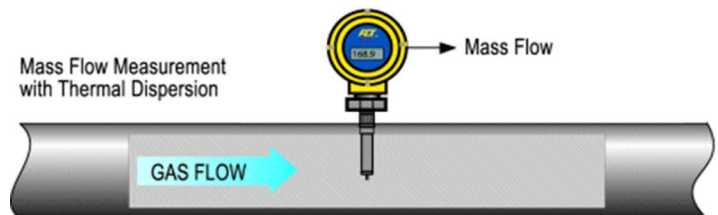
External / Remote Display



Tube Type
Ultrasonic
Transmitter

Gas Flow Measurement's

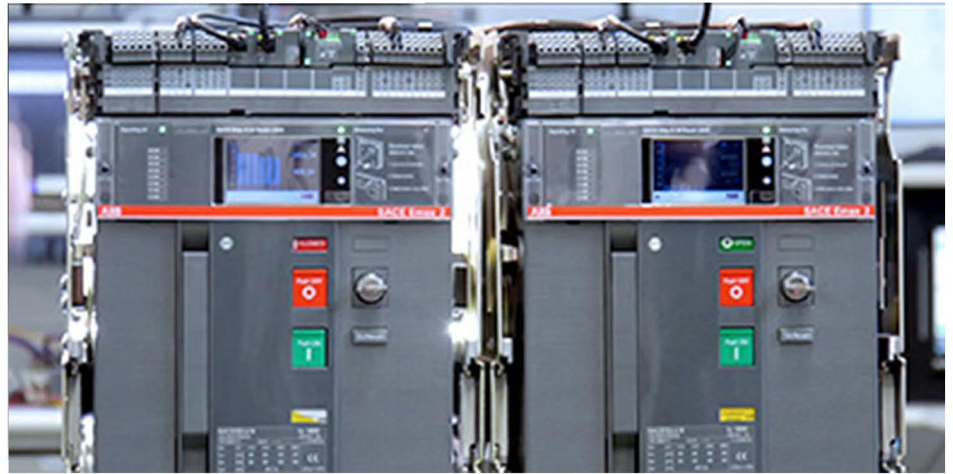
Electrologic Provides you a highest quality of support in the oil and natural gas industry. Electrologic measurement service has continued to grow by meeting customer requests with out field service support. We consistently strive to exceed our customer and stay ahead of the competition based on the service we offer. Electrologic Service Values are founded on integrity, Relationships, fairness, and excellent customer service.



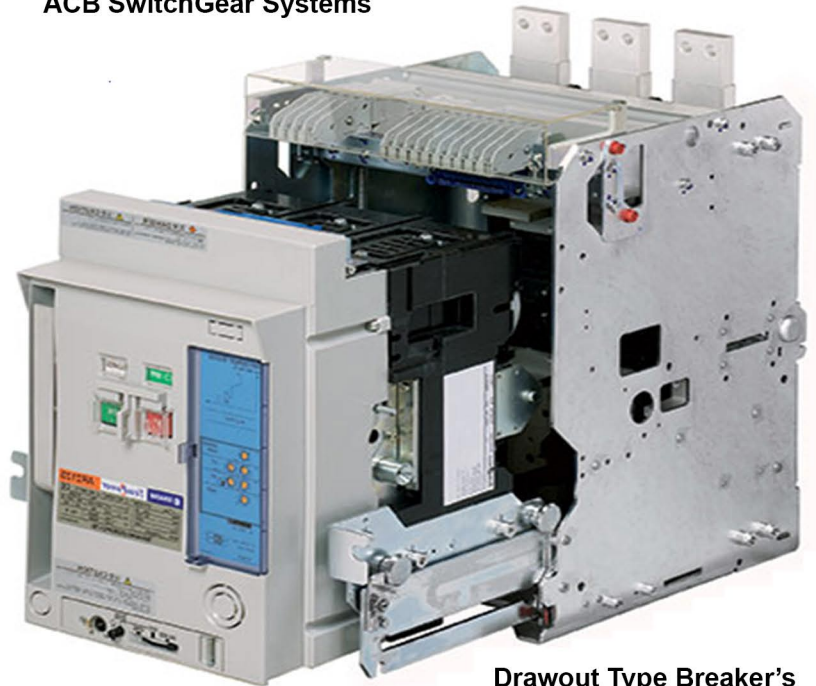
Switchgear's , Distribution and Sync Panels

Low Voltage LT Panels

Electrologic low voltage LT panels provides control and protection of low voltage power equipment and circuits for industrial, commercial, and utility installations. Electrologic LT products not only provide optimum power distribution, they also meet demanding requirements on safety and flexibility. The products have been developed for various fields of application offering a high level of protection and reliability. The sheet steel clad with modular systems for assembling of cubicles intended to take heavy equipments, dust and vermin proof, free standing, floor mounting indoor type with TPN and E copper bus bar, LT is equipped with different type of Circuit Breakers such as Air Circuit Breaker (ACB), Molded Case Circuit Breaker (MCCB), Miniature Circuit Breaker (MCB), Motor Control Circuit Breaker etc, relay, control and indicating auxiliaries which are imported from, All control and indicating devices are located at the front of upper low voltage compartment for easy checking by the operator. Technical Data: Rated Voltage: Up to 660V Rated Current: Up to 8000AMP



ACB SwitchGear Systems



Drawout Type Breaker's



Distribution Panel



Genset Sync Panel

Temperature Monitoring And AVR'S

Temperature Monitoring and Logs Recording

Electrologic provides a high end technology in temperature monitoring and logs recording.

We offer many types of equipment to record a temperature to control and monitor.

1. PLC Based monitoring and logs generation.
2. Paper less recording
3. HMI logs generation
4. 10 to 20 channel multiple temperatures monitoring for Generator set.
5. Embedded controller

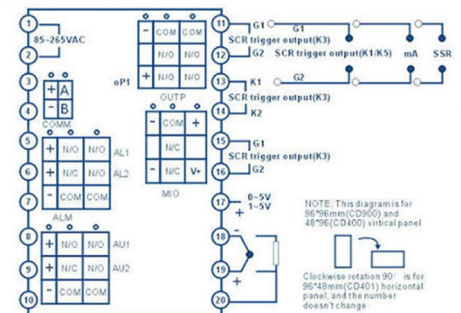


Temperature Logger



Temperature Controller
Modbus 485 RTU

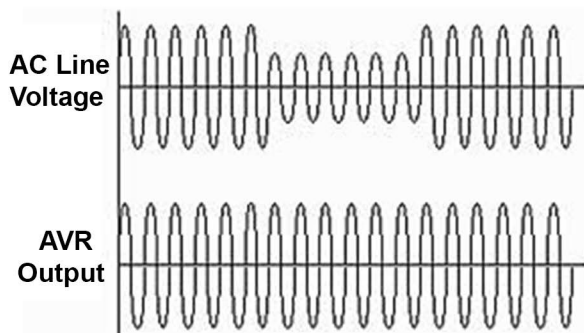
32 Channel Temperature Monitor
For Genset Monitoring



Automatic Voltage Regulator

Being a low profile product in the industry, many may not be aware of this product But, this product is in existence and successfully serving a huge clientele from past few decades. Now, we at Electrologic have taken the initiative to reintroduce the product in the industry and most importantly manufacturing with its trust original standard Based mechanism & designing.

Electrologic offers precision engineered state of art LT Servo Stabilizer (LT AVR), as the name suggest this AVRA operates "ON Load", sleeplessly directly on the LT line and gives stabilized LT voltage output. The fluctuating LT voltage from Transfromer supply is initially controlled by the LT AVR with accuracy of +/- 1% and then fed to the Load resulting in constant LT Output within +/- 1% accuracy.



Control Panels

Power Factor Controller Panels (PFC)

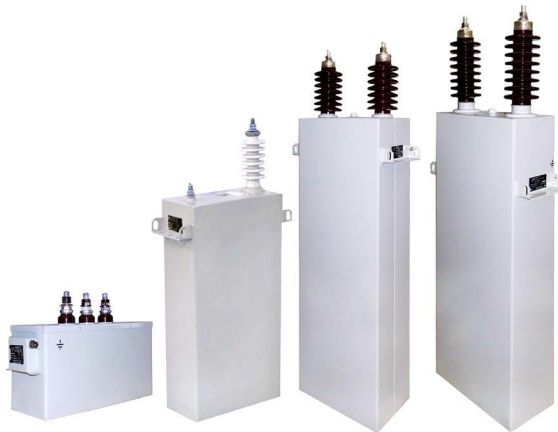
We design and manufacture automatic power factor correction panel.(Contactor switching). Power factor is ratio which represents actual power dissipated in A.C. Circuit to the product of R.M.S Voltage and current, The phase difference between voltage and current is caused by reactance in circuit and represents power that does no useful work. inductive load is major caused of poor factor and which is responsible for unnecessarily power loss, Hence it results in rise of electricity bills of industrial, commercial consumer so Reactive power compensation is very need to today's industries. We can easily control and maintain power factor near to unity with Automatic Power Factor Correction Panel.



Power Factor Panels



Power Factor Controller



Medium Voltage Capacitors



Low Voltage Capacitor

Motor Control Center Panels (MCC)

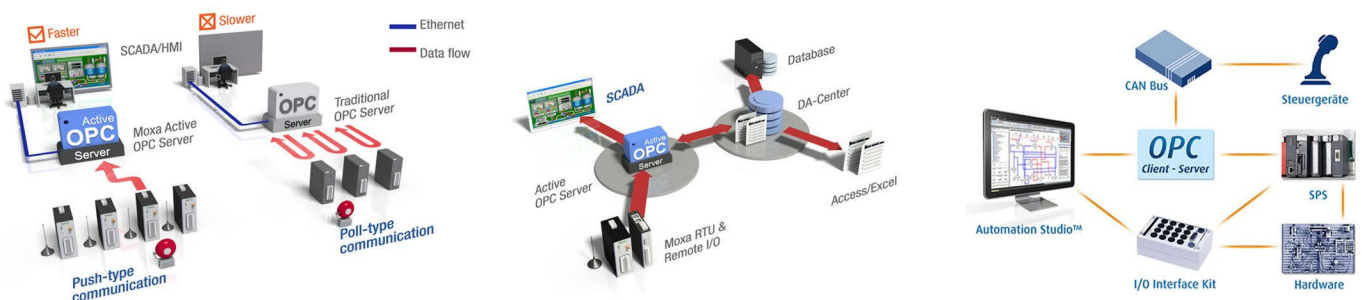
We know for manufacturing and supplying precision engineered Industrial MCC Panels. These customized MCC Panels have created a higher demand among customers for having unmatched quality, excellent efficiency and long term durability. Designed to perfection, these are widely renowned for simple operation and low maintenance. These have the capacity to feed larger loads and are designed as per the client's specifications. The MCC panels are conventional to the international standards and are available with multiple power stable that help in supporting high capacity industrial motors.



Remote Automation

Network Based Automation

Electrologic Solution targets measurement and control needs in remote locations with the superior technology, services and integrated architecture to deliver quantified business improvement, as well as optimum production, operations and reliability, ensuring a competitive edge. We also designed an automation system for a "IT and Datacenter" to control the system power, Ups remote powering and Time based automation to control the datacenter on timing parameters.



Wireless Control Data Receiving For Long Distance

Electrologic is an industry leading Developer of longrange wireless radios and cryptographic technology.

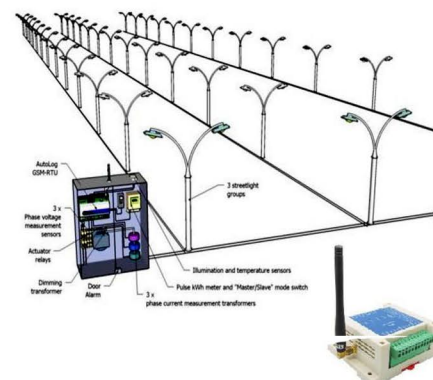
Ethernet and data communications products including Wireless Ethernet Bridge, Outdoor Wireless Ethernet, 900 MHz Ethernet Bridge, etc. has a market leadership position in providing solutions for surveillance video, access control, industrial automation, remote sensing and remote control markets.



Wireless Lighting Control

We automate industrial lighting systems give you the power to remotely control all of your lighting from a single screen, wherever you are. We can even give your industry a mind of its own, allowing it to intelligently allocate lighting automatically, benefiting from true energy efficiency.

R F Wireless Controlled Street Lights



Fuel Consumptions Solution's

Fuel consumption solutions

With FM53& TAVL application You have following options to monitor fuel consumption:

- Show fuel level at the moment
- Show fuel usage per period of time
- Show average fuel usage
- Show fuel temperature information

Fuel Tank

2/08/2016 12:00:00AM - 2/10/2016 11:59:59PM
Number:

Date	Filling (1)	Pouring off (1)
2/11/2013 7:43:37PM	355.4	
2/18/2013 4:27:00PM	436.6	
Altogether	791.0	0.0



Tankage for start (1) 571.0 for end (1): 560.8 Fuel used (1): 801.2
Distance (Km): 2,0816.6 fuel used (L/100Km) 38.5

Driven Distance:

2/10/2013 12:00:00AM - 2/20/2013 11:59:99PM

Nos	Comment	Fuel (1)	Fuel Rate (L/100 Km)	Distance (Km)
		801.2	38.5	2,081.6
Total		801.2	Arvg. 38.5	2,081.6

Fuel consumption solutions with TAVL

With FM53& TAVL application You have following options to monitor fuel consumption:

- Show fuel level at the moment
- Show fuel usage per period of time
- Show average fuel usage
- Show fuel temperature information

Fuel monitoring from TAVL application,

- Fuel tank reports: fuel level, fuel filling/pouring, fuel consumption
- Fuel graphic diagrams

Fuel monitoring from application

- Fuel tank reports: fuel level, fuel filling/pouring, fuel consumption.
- Fuel graphic diagrams.

Tankage for start (1) 571.0 for end (1): 560.8 Fuel used (1): 801.2

Distance (Km): 2,0816.6 fuel used (L/100Km) 38.5

Driven Distance

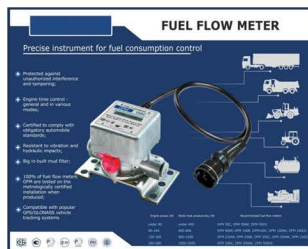
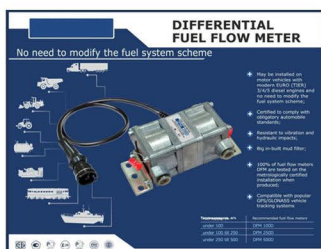
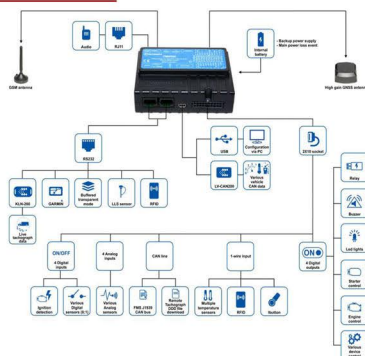
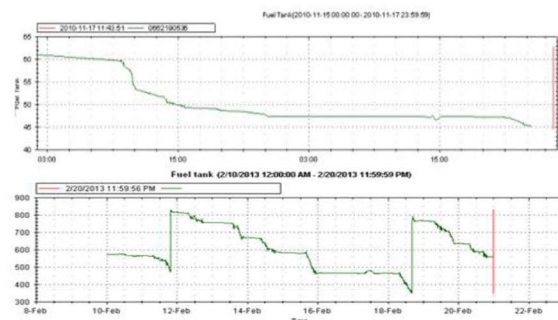
2/10/2013 12:00:00AM - 2/20/2013 11:59:99PM

Available fuel sources:

- LLS fuel sensor
- CAN-bus
- Impulse fuel counter
- Analog input

FM5300 can send fuel data of two digital fuel sensors.

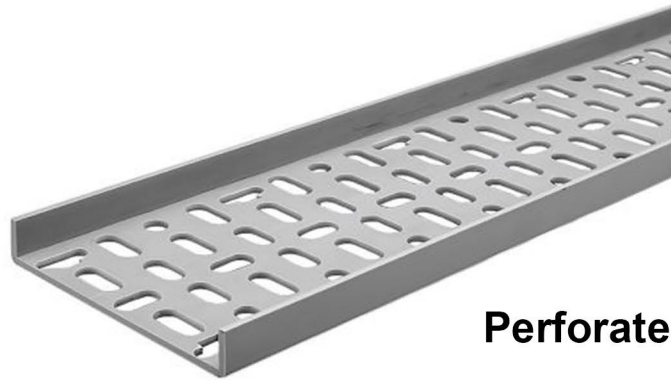
It is possible to generate data of two fuel sensors to one general fuel report.



Cable Tray , Cable Duct And Cable Laying

Cable Tray And Trunks

Electrologic cable Trays, manufactures of different of cable trays, like, perforate type, ladder type and trunk type, with all filling & accessories. Cable tray is a unit, or assembly of unit and associated fittings, forming a rigid structural system, used to securely fasten or support cable. Cable is an integral part of all major projects, industrial, commercial or utility. Cable Tray has greatly improved safety, durability and beauty of cable installation.



Perforated



Cable Installation And Laying Service

We Immense expertise in offering cable installation and laing service. Our services are extensivel appreciated for their efficient working, rellability, timeliness and cost effectiveness. We have a team of highly experienced and dedicated staff members who enable us to execute the whole operations within the promised time frame.



Synchronize Solar System

PV Solar System

We provides a green energy solutions provider founded by professional consultants from energy, management and marketing fields. Driven by a passion for green energy, the founders merged their strengths and combined to become a leading provider of affordable, innovative and high quality renewable energy solutions in Pakistan.

The Benefits Of Solar Electricity

- Cut your electricity bills. Sunlight is free, so once you've paid for the initial installation, your electricity costs will be reduced.
- Get paid for the electricity you generate. Feed-in-Tariff scheme pays you for the electricity you generate, even if you use it.
- Sell electricity back to the grid. If your system is producing more electricity than you need, you can sell the surplus back to the grid through the Feed-in Tariff scheme.

Costs, savings and financial support for solar:

Solar PV maintenance:

Solar PV needs little maintenance – you'll just need to keep the panels relatively clean and make sure trees don't begin to overshadow them.

Synchronize Solar Energy System (Tie Grid Hybrid Inverter)

Grid-Tie Inverters

A grid-tie inverter is a power inverter that converts direct current (DC) electricity into alternating current (AC) with an ability to synchronize to interface with a utility line. Its applications are converting DC sources such as solar panels or small wind turbines into AC for tying with the grid.

Hybrid Inverters

An intelligent hybrid inverter or smart grid inverter is a new generation of dedicated uninterruptible power supply (UPS) applications using renewable energy for home consumption, especially for solar photovoltaic installations.

Off-Grid Inverters

There's no need for an inverter if you're only setting up solar panels for your boat, your RV, or something else that runs on DC current. You will need an inverter to convert DC to AC for all other electrical appliances.

Off-grid inverters do not have to match phase with the utility sine wave as opposed to grid-tie inverters. Electrical current flows from the solar panels through the solar charge controller and the bank battery bank before it is finally converted into AC by the off-grid-inverter.

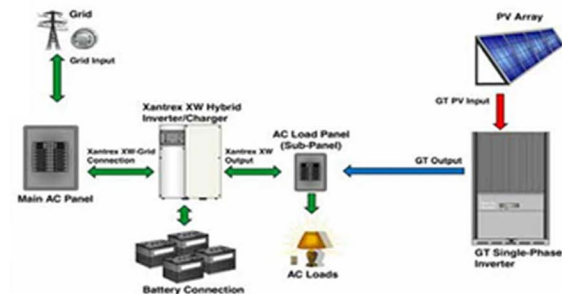
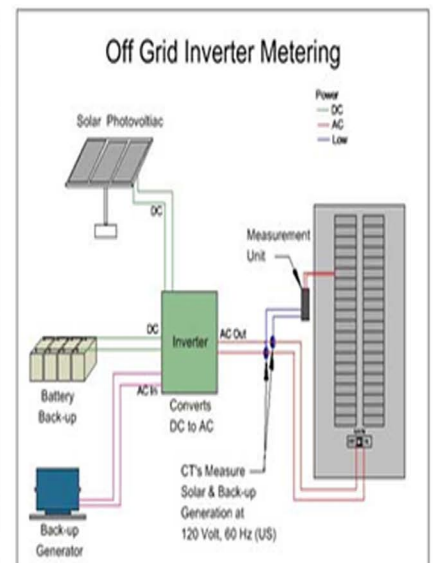
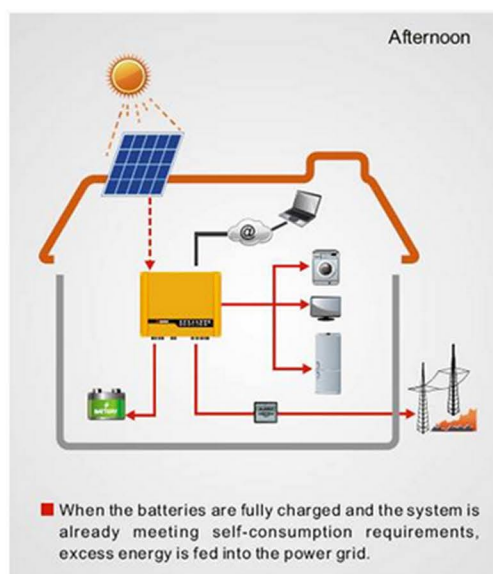
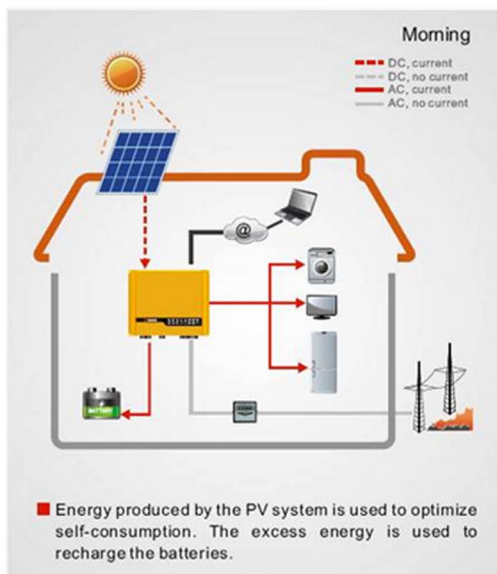


Figure 1 AC-Coupled System – Current Flows



Integrated Automation

PLC Based Automation

Electro logic Automation is a leading industrial automation solutions provider offering services in the Middle East region and covering a wide range of applications and processes including Oil & Gas, Utilities, and Manufacturing. We offer integrated PLC/SCADA based solutions as well as DCS based solutions for discrete, batch, and continuous processes. We distinguish ourselves by providing well-engineered solutions with significant focus on the application software development and testing.

Our Specialty

- High-speed, mixed signal I/O;
- Integrated machine vision and/or multi-axis motion control;
- Deep memory for data logging;
- Calibrated measurement traceable to third-party standards;
- Custom real-time data analysis;
- Custom control logic;
- Full network awareness, including the ability to manage multiple simultaneous network communications protocols, the ability to distribute data over networks, and the capacity for remote monitoring and control over wired and wireless networks.
- The flexibility to quickly adapt the system to suit changing needs and new technologies as they arise.
- Remote systems
- Data monitoring
- High Speed RPM Monitoring
- Data Logging

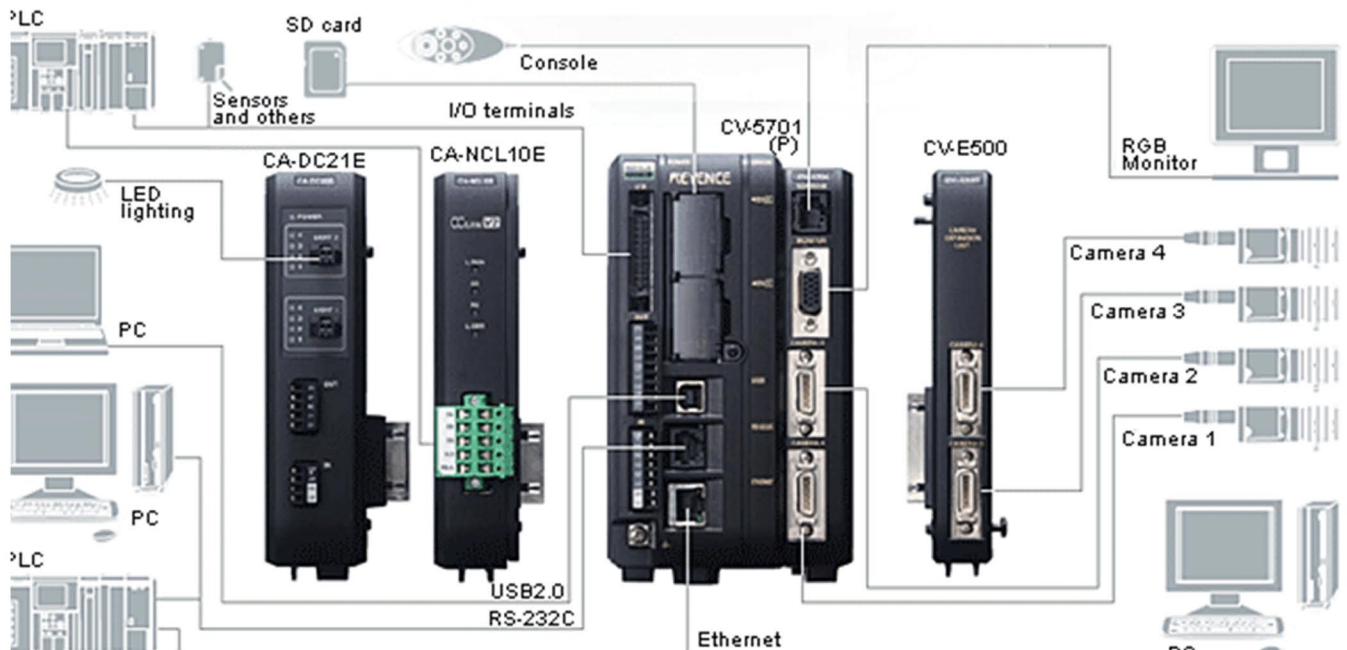


Mitsubishi MELSEC



Siemens S7 1200 Series

Vision System



High Speed Programmable Logical Controller

Industrial UPS With Redundant System

Industrial UPS

Parallel UPS

Running two or more UPS in parallel (and thus configuring a parallel UPS system) enables customers to either add redundancy or greater capacity. There are, therefore, two primary types of parallel UPS

parallel-redundancy and parallel capacity UPS

In a parallel UPS system, the keys are

- Controlling how the separate UPS 'co-operate' as one unified system.
- Synchronizing the output of each UPS so it can flow into a shared output.
- Balancing the load equally amongst all UPS in the configuration.
- And if a problem occurs, identifying the UPS with the problem and decommissioning it.

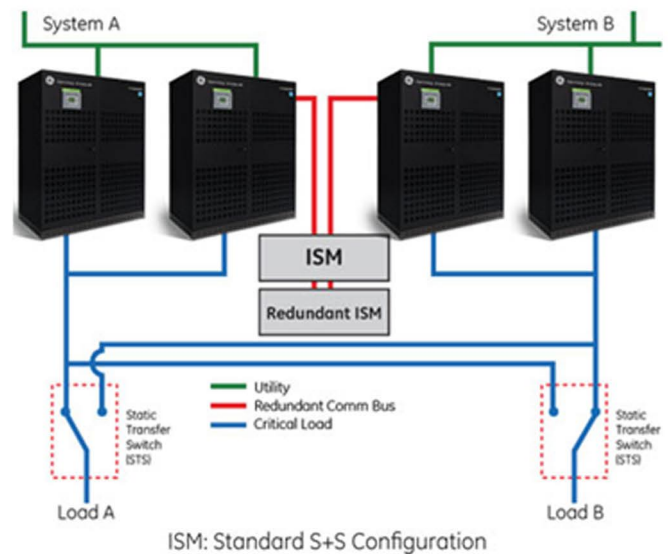
The advantages of a parallel-redundant UPS system are that it offers a far higher level of availability than parallel-capacity systems due to the extra capacity within each UPS module. This can be utilised if one breaks down or has to be taken out of service for maintenance. The system is also less likely to fail than other parallel configurations because there are fewer breakers and no step loads (modules are online the whole time). It is also expandable should the power requirement grow and the hardware arrangement is simple and cost-effective.



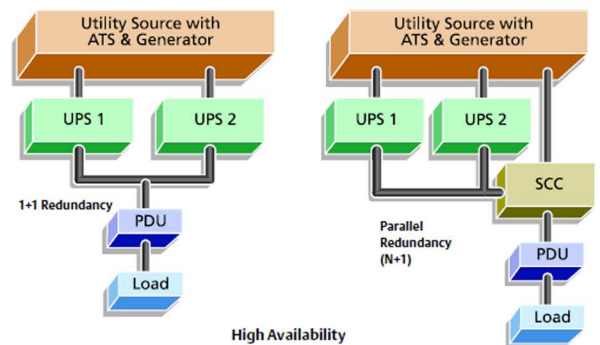
Tower Systems 30 KVA

Standard RPA™ Configuration:

True Redundancy with Distributed Control & Bypass



Rackmount Systems



APC Symetra Series XL
Large Scale UPS upto 200KW

Earthing Solution's

Electrologic Unique Earthing Solution's

Electrologic is one of the eminent manufacturers and suppliers of Advanced Earthing Solutions, Lightning Protection Systems & Surge Protection Devices. These products have surpassed our competitors and earned reputation in the market Owing to their quality and high reliability features. We are also engaged in offering lightning risk assessment, surveys, installation and maintenance service.



Solid Copper Wire



Flexible Copper Wire



Galvanized Wire



Brass Connector



Copper Plate to Wire Connector



Copper Rod To Rod Connector



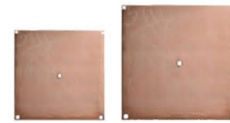
Copper Rods For Earthing

Lighting Arrester

A lightning Arrester is a metal rod or metallic object mounted on top of a building, electrical power systems and telecommunications systems electrically bonded using a wire or electrical conductor to interface with ground or "earth" through an electrode, engineered to protect the building and the electrical power system from the damaging effects of lightning strike. If lightning targets preferentially strike the rod and be conducted to ground through the wire, instead of passing through the building, where it could start a fire or cause electrocution. The typical lightning arrester has a high-voltage terminal and a ground terminal. A lightning arrester made from GI rod and copper bounded rod in form of single point and multipoint's system.



Lighting Arrester's



Copper Plate's



Lighting Arrester's

Surge Protection Device's

Surge are temporary rise in voltage and current on an electrical circuit. Their voltage ranges are greater than 2000 volt and current ranges are greater than 100 ampere. Typical rise time is in the 1 to 10 microsecond range. Transient or surge is the most common power problems and its impacts are caused significant damages such as electrical or electronic equipments failure, frequent downtime, lost data, lost time and business downtime, etc



Surge Protector

SOR (Soil's OHM Reducer) Compound

SOR compound is a specially formulated compound having high current conductive & rust Resistance property, Absorbing & retaining the moisture for long period. It reduces the ohmic value of soil & helps in Faster dissipation of fault current. Sor compound will be used around the earth electrodes at the time of installation. SOR compound is to reduce resistance between electrodes and soil and to create a low resistance zone around the electrode to create a uniform environment so that the electrode output is constant. Sor compound use as back fill material.



Earthing Compound

Other Product's

Measuring Equipment's



Multimeters



Distance Meter



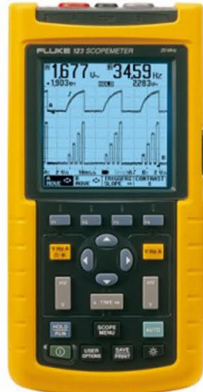
Infrared Temperature Meter



Techometer



Scope Meter's



Clamp Meter's



Safety And Warnings Equipment's



Explosion Proof LED Indication Lights



Warning Alarm With Light

Other Product's



Proximiti Sensor



Distance Sensor



Photo Electric Sensorttt



Limit Switches



Encoders



BLDC Gear Motor



High Voltage Tester



Grounding
Rods