



m-tech

Automation (India) pvt ltd

**II TOTAL
AUTOMATION
SOLUTION**



**We Deal In
Brands**

SIEMENS



Allen-Bradley
by ROCKWELL AUTOMATION

Schneider
Electric

ABB

DELTA

selec
Creating Best Value

Danfoss

Kinco

FATEK

YASKAWA

TOSHIBA

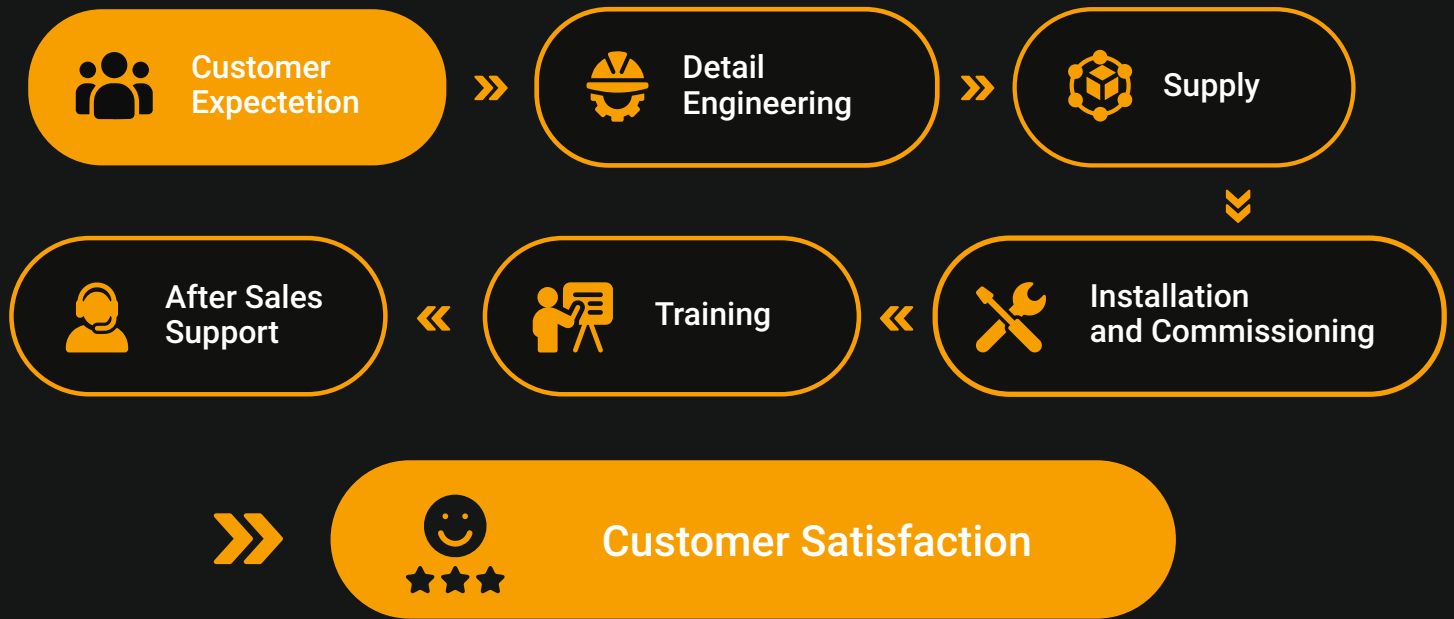
OMRON



Fuji Electric
Innovating Energy Technology



Our Work Process



“Trunkey Solution Provider In Electrical,
Instrumentation Automation and Software Industry **”**

M-Tech Provides supply and services for

- PLC
- SCADA & HMI
- INDUSTRIAL IOT
- AC DRIVES
- DATA LOGGERS
- INDUSTRIAL COMPUTERS
- LCD BASED OPERATED PANEL
- CONTROL PANELS & OPERATED CONSOLES
- VFD
- BUSBAR/BUS DUCTS
- CONTROL SYSTEM
- OPERATOR STATION SOFTWARE

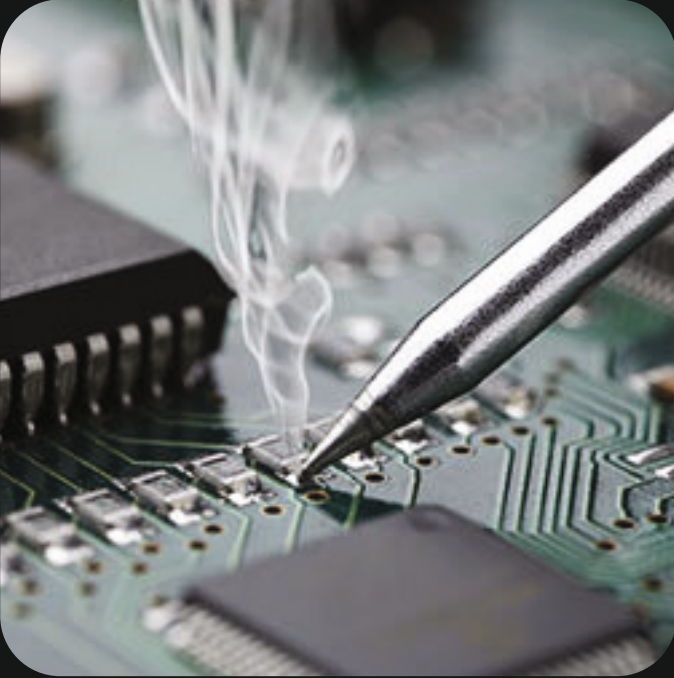
M-Tech Service includes

- ERACTION
- INSTALLATION
- SYSTEM ENGINEERING
- SOFTWARE DEVELOPMENT
- INTEGRATION
- TESTING
- COMMISSIONING
- SUPPORT

M-Tech Provides all types of electrical panels including

- PLC CONTROL PANELS
- MCC PANELS
- PCC PANELS
- APFC PANELS
- INSTRUMENTATION PANELS
- VFD CONTROL PANELS
- DC DRIVE PANELS
- POWER DISTRIBUTION PANELS
- JUNCTION BOX
- SCADA
- IIOT

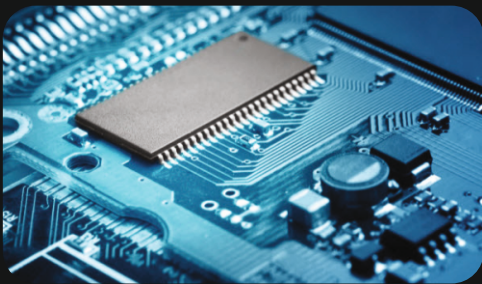
WHY CHOOSE M-TECH AUTOMATION SERVICES



- In House Repair from Experts
- In Service Warrantees
- Quick Standard Turn Around
- Constant Support
- Price Guarantee
- Full Load Testing
- Prevent Downtime, Production Loss
- Loss of money, Loss of time

REPAIR CENTRE

VFD & SERVO DRIVES
PLC & HMI



LARGEST
REPAIR
CENTRE

All our services, be it AC drive or DC drive repair service, servo drive, etc. are applicable to all major brands available in the market, including:

- | | | | |
|-----------------|-----------|-----------|--------------|
| ▪ ABB | ▪ Siemens | ▪ Delta | ▪ Mitsubishi |
| ▪ Allen Bradley | ▪ Yaskawa | ▪ Rexroth | ▪ Fuji |
| ▪ Parker/SSD | ▪ Danfoss | ▪ Lenze | |

Instruments

Flow Measurement Instruments

Ultrasonic Flow Meter



Feature

- High Accuracy
- Approved for custody transfer
- High turndown/rangeability measure low and high pressure
- Repeatable
- Can clamp on pipe with no penetration
- Tolerate extreme temperature
- Long term reliability
- No moving parts to replace or lubricate. So low maintenance cost

Application

In order of usage, water/wastewater industry, chemical, food and beverage, oil and gas (although not for oil and gas fluids but in support of the processes), power, pulp and paper, metals and mining, and pharmaceutical.

Fuji

Honeywell

Siemens

Dwyer

Magnetic Flow Meter



Feature

- The electromagnetic flow meter provides rapid response to flow changes.
- It provides linear wide range.
- Measuring range setting can be optimized.
- It has ability to measure reverse flow.
- No additional pressure drops.
- No obstruction is created to flow.
- It is mainly suitable for hydraulic solid transport.
- It is unaffected by changes in temperature, density, viscosity, concentration and electrical conductivity.

Application

In order of usage, water/wastewater industry, chemical, food and beverage, oil and gas (although not for oil and gas fluids but in support of the processes), power, pulp and paper, metals and mining, and pharmaceutical.

Emerson

Honeywell

Siemens

Jumo

Burkert

Yokogawa

Variable Flow Meter



Siemens

Dwyer

Burkert

Yokogawa

Feature

- Reasonably priced, simple construction
- No auxiliary energy necessary
- Suitable for liquids and gases
- No in and outlet straight length necessary
- Assembly and maintenance friendly
- Available with contact or current exit

Application

"Process Flow Monitoring, Pump Protection, Pure Water Production, Filtration Systems, Chemical Production, Reverse Osmosis, Demineralization/Regeneration, Fume Scrubbers, Cooling Towers".

Turbine Flow Meter



Emerson

Honeywell

Dwyer

Jumo

Omega

Feature

- The plot of the volumetric flow is continuous since the turbine is constantly rotating with a speed. Of course, it would be zero if the flow stops as well. Repeatability is a highly desirable factor in any flow meter
- The rate of response for a turbine flow meter is quite fast (down to about a quarter of a second)
- Accuracy is very good (about $\pm 0.25\%$)
- Rugged nature of the flow meter, allowing for daily usage
- Integral 4 to 20 mA output with no need for additional external components

Application

In order of magnitude from largest to smallest, these are used in oil and gas, water and wastewater, gas utility, chemical, power, food and beverage, aerospace, pharmaceutical, metals and mining, and pulp and paper.

Vortex Flow Meter



Emerson

Honeywell

Siemens

ABB

Crompton

Yokogawa

Feature

- It supports higher range
- It is very simple in construction.
- It works well for both liquids and gases.
- It does not require complex pressure impulse lines.
- It is less sensitive to wear.
- It does not require need for compensation of fluid density in volumetric flow measurement.

Application

Different media solutions, such as liquid, or gas, can affect the capability of the vortex flow meter. Liquid - Liquids with heavy particle suspensions will wear down or clog internal parts, such as the bluff body, causing flow meter errors. Vortex flow meters struggle with liquids that have a high viscosity since they tend to dampen the formation of vortices and reduce the effective range. Particles and internal bubbles do not usually affect vortex meters. Most manufactures are calibrated for liquids of 1 CST viscosity. Anything above that will raise the minimum readable flow rate, reducing rangeability. Gas- Gas is compressible and changes volume when placed under pressure, heated, or cooled. For systems where gas is the primary media, the vortex flow media should have sensors which monitor changes in temperature and pressure in the system.



Pressure measurement

Pressure Transmitter



Feature

- Most commonly used.
- Available in wide range.
- Easily available for Installation.

Application

Pressure transmitters are used in a wide variety of applications. They are used in machinery to warn machine operators of high pressure levels before a disaster takes place. Pressure transmitters also ensure that machines do not apply too much or too little pressure during production. Pressure transmitters can be used in conjunction with other devices to measure depth, altitude, water flow, and even pressure loss in order to prevent leaks in a system.

Emerson

Fuji

Honeywell

Siemens

Wika

Dwyer

Capacitive Pressure Sensor



Feature

- The sensitivity of capacitive transducer is high.
- The capacitive transducer is useful for small system.
- It has good frequency response.
- It requires small power to operate.
- The loading effect is less due to high input impedance.

Application

The capacitive transducers are used to measure humidity in gases. It is used to measure volume, liquid level, density etc. It is used for measurement of linear and angular displacement.

Emerson

Honeywell

Siemens

Wika

Dwyer

Jumo

Pressure Switch



Feature

- Easy to install, Easy to set point, Set point can be viewed as well

Application

Compressed Air Systems, HVAC Equipment, Pumping Systems, Process Equipments.

Emerson

Honeywell

Wika

Dwyer

Jumo

Burkert

Bourdon Tube Pressure Gauge



Feature

- These Bourdon tube pressure gauges give accurate results.
- Bourdon tube cost low.
- Bourdon tube are simple in construction.
- They can be modified to give electrical outputs.
- They are safe even for high pressure measurement.
- Accuracy is high especially at high pressures.

Application

They are used to measure medium to very high pressures

Emerson

Honeywell

Wika

Dwyer

Burkert

Sika

Differential Pressure Gauge



Feature

- Easy to install, Can monitor the differential pressure, Can directly measure the differential pressure and indicate without any transmitter.

Application

Help operators prevent damage to their system because they stay informed of filter status. Prevent legal issues between filter manufacturers and customers who over exert the life of their filters and misuse the systems Increase filter cartridge sales by 20-30% by helping customers stay informed of the filter's status Help distinguish your filter from the 1,000's of competitors out there

Honeywell

Wika

Dwyer

General

Sika

Yokogawa

Temperature Instruments

Thermocouple



Emerson

Honeywell

Siemens

Wika

Dwyar

Jumo

Feature

- **Temperature range:** Most practical temperature ranges, from cryogenics to jet-engine exhaust, can be served using thermocouples. Depending on the metal wires used, a thermocouple is capable of measuring temperature in the range -200°C to $+2500^{\circ}\text{C}$.
- **Robust:** Thermocouples are rugged devices that are immune to shock and vibration and are suitable for use in hazardous environments.
- **Rapid response:** Because they are small and have low thermal capacity, thermocouples respond rapidly to temperature changes, especially if the sensing junction is exposed. They can respond to rapidly changing temperatures within a few hundred milliseconds.
- **Heating:** Because thermocouples require no excitation power, they are not prone to self heating and are intrinsically safe.

Application

The thermocouples are suitable for measuring a large temperature ranges. The higher range of the temperature is 2300°C . By using the thermocouple, we can measure the gas turbine exhaust, kilns, diesel engines and fog machines. They are suitable for lesser applications, but the smaller range of temperatures is measured accurately. For the small measurement application the devices use are silicon bandgap temperature sensor, thermistor and resistance thermometers are suitable

Temperature Transmitter



Emerson

Honeywell

Siemens

Wika

Dwyar

Jumo

Feature

- AC power is not required at the remote location in order to operate a two-wire transmitter
- The supply of additional power at the remote location is not needed, as transmitters are powered by a low level 4 - 20 mA output current signal. Additionally, the usual 24 Vdc signal necessary for operation is standard in plants that have increased amounts of instrumentation.
- Electrical noise and signal degradation are not a problem for two-wire transmitter users
- When it comes to ambient electrical noise, the transmitter's current output signal lends itself to a high immunity. Any noise that does appear in the output current is usually prevented by the common-mode rejection of the receiving device. In addition, the current output signal will not diminish (change) with distance as can be seen in most voltage signals.
- Wire costs decrease significantly when using transmitters

Application

Used in many Industries to transmit temperature in 4-20 mA signal from remote Temperature Sensor to PLC or any other control system.

Temperature Switch



Feature

- Easy to use
- Can be used to set desired setpoint so that as soon as the desired temperature is reached, the switch gives output.

Application

To control different machines in different processes depending on the temperature setpoints.

Honeywell

Wika

Dwyar

Jumo

Danfoss

Burkert

Temperature Indicator



Feature

- Shows Temperature directly.
- Universal temperature input
- Easy to read

Application

Areas where the temperature is to be constantly monitored by the operator.

Emerson

Fuji

Honeywell

Wika

Dwyar

Schneider

Omron

Temperature Gauge



Feature

- Simplicity in use and low cost.
- Portable Device
- Checking damage is easy
- Do not require any power

Application

This instrument works best in applications such as power generation, oil and gas, waste water, and pulp and paper. Vapor Actuated Thermometers are economical temperature gauges that provide an accurate remote reading for applications such as refrigeration, solar heating, and water treatment.

Wika

Dwyar

Jumo

General

Level measurement

Radar Level Transmitter



Feature

- Advantage of guided wave radar level measurement is that no compensation is necessary for changes in density, dielectric or conductivity of the fluid. Further, he says changes in pressure, temperature and most vapor space conditions have no impact on measurement accuracy; GWR is unaffected by high turbulence or vibrations; and build-up has practically no effect, meaning no need for re-calibration.

Application

High temperatures and pressures do not affect device performance

Emerson

Honeywell

Siemens

ABB

Burkert

Yokogawa

Ultrasonic Level Transmitter



Feature

- Non-contact, maintenance-free measurement
- Measurement unaffected by media properties, like dc value or density
- Calibration without filling or discharging
- Self-cleaning effect due to vibrating sensor diaphragm

Application

Acids, Wastewater, Inks and Paints, Slurries, Food and Beverage, Semiconductor Process Chemicals Oils and Petroleum Distillates

Emerson

Honeywell

Siemens

Dwyer

ABB

Burkert

Capacitive Level Transmitter



Feature

- Proven and tested measuring principle - robust and safe
- Universally adaptable probe
- Reliable operation also in strong build-up formation and viscous media
- Easy commissioning

Application

Sewage and wastewater, Boilers and steam generators, Food and beverage, Caustics and acids, Pharmaceuticals

Emerson

Honeywell

Siemens

Dwyer

ABB

Burkert

Boyancy Float Level Switch



Feature

- Simplicity
- Insensitive to density changes

Application

Used primarily in open tanks whereas float level switches may be designed to operate in a pressurized tank.

Emerson

Wika

Dwyer

ABB

Burkert

Hydrostatic Level Transmitter



Feature

- Several alternative sensor technologies and design variations are available for almost every application
- Level measurement is not influenced by existing installed equipment and vessel geometry.
- They have a proven measuring principle with high reliability.
- The hydraulic level transmitters have direct contact with the medium.
- They provide robust measuring processes, which are unaffected by factors like vapor, contaminants, dust, buildup, foam, etc.
- The transmitters' measurement is uninfluenced by characteristics like dielectric coefficient, conductivity, or viscosity.

Emerson

Honeywell

Siemens

Wika

Dwyer

ABB

Application

Borehole Monitoring, Hazardous Areas, Storage Tanks

Liquid Analysis

Chlorine Sensor



Feature

- Three-electrode principle
- Easy calibration
- Integrated temperature compensation
- Proven measuring system
- Analog and digital version

Application

Drinking water monitoring and Swimming pool monitoring

Emerson

Siemens

Jumo

ABB

Burkert

Hach

Conductivity Sensor



Feature

- Fills the gap between conductive and inductive measuring cells
- Very wide measuring range possible
- Hygienic design
- Hygienic process connections
- Adapters enable easy connection to a large variety of processes
- Delivery includes quality certificate for cell constant, surface roughness, and FDA approved materials

Application

Rinsing processes in these industries: food technology, beverage technology, pharmaceutical, biotechnology, Ion exchange plants, Phase separation, Bottle cleaning plants, Process water monitoring

Emerson

Honeywell

Jumo

ABB

Burkert

Yokogawa

Hardness Sensor



Feature

- Takes heavy loads for testing
- Easy to operate the testing equipment
- Indentation made during the test can be observed under microscope or eyepiece
- Not sensitive to deflection and so easy to test

Application

ETP, Chemical Plants

Emerson

Honeywell

Jumo

ABB

Yokogawa

Hach

Redox/Oxygen Sensor



Honeywell

Jumo

ABB

Hach

Feature

- Especially robust industry electrodes for the most demanding applications
- For processes with increased pollutant and toxic loads as well as media containing oil
- For high process pressures up to 13 bar
- Wide temperature operating range up to 135 °C

Application

With platinum cone, Chromate reduction, Nitrite oxidation, Swimming pool and drinking water disinfection

Turbidity Sensor



Emerson

Honeywell

Jumo

ABB

Burkert

Feature

- Measuring method based on the 90° scattered light procedure according to DIN EN ISO 7027
- Entire measuring range 0 to 4000 NTU
- Four single measuring ranges (adjustable) as well as automatic measuring range detection
- Secure, digital measured value transmission
- High measuring accuracy, even for low turbidity

Application

Process monitoring in the treatment of drinking water and wastewater, Municipal and industrial sewage treatment plants, Monitoring of bodies of water, Fish farming companies

Recorder

Paper Recorder



Feature

- Avoiding the risks and costs of non-conformances
- Creating improvement opportunities
- Discovering wall-to-wall financial savings
- Enhancing data analysis efficiency and speed

Application

Chemical plant, Food & Beverage Plant, Tyre Industries, Semiconductor Plant, Metal Alloy, Steel Plants, Automotive Plant, Environmental Monitoring or Laboratory,

Fuji

Honeywell

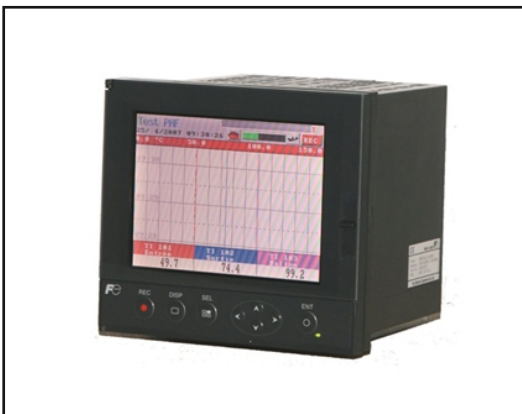
Siemens

Dwyer

Schneider

ABB

Paperless Recorder



Feature

- Avoiding the risks and costs of non-conformances
- Creating improvement opportunities
- Discovering wall-to-wall financial savings
- Enhancing data analysis efficiency and speed

Application

Chemical plant, Food & Beverage Plant, Tyre Industries, Semiconductor Plant, Metal Alloy, Steel Plants, Automotive Plant, Environmental Monitoring or Laboratory, Plastic Extrusion Equipment, Forging Companies, Power Plants, Cement Industries, Paper and Pulp Industries, Pharmaceuticals

Fuji

Honeywell

Siemens

Schneider

Jumo

ABB

Graphic Recorder



Feature

- Quick visualization and documentation of the integrity of the process
- Faster data analysis
- Better access to secure data
- Reduced maintenance costs.

Application

Chemical plant, Food & Beverage Plant, Tyre Industries, Semiconductor Plant, Metal Alloy, Steel Plants, Automotive Plant, Environmental Monitoring or Laboratory, Plastic Extrusion Equipment, Forging Companies, Power Plants, Cement Industries, Paper and Pulp Industries, Pharmaceuticals

Fuji

Honeywell

Siemens

Schneider

Jumo

ABB

Hybrid Recorder



Fuji Electric

Feature

- Multiple control functions.
- Multiple function
- Multiple outputs depending on the Input and the process.

Application

Areas where there is a need for multiple processes.

Data Logger & HMI



Fuji

Honeywell

Siemens

Schneider

Jumo

ABB

Feature

- It can be used in remote or dangerous situations.
- The data logging can work as per its design. Some equipments log data 24 hours a day and 365 days of year while some logs data only during its predefined period.
- Once it is setup, it performs data logging automatically and does not require presence of human beings.
- It is very accurate as likelihood of human error is not there.
- It is easier to understand scientific experiments and scientific concept with the help of better graphs/plots

Application

Chemical plant, Food & Beverage Plant, Tyre Industries, Semiconductor Plant, Metal Alloy, Steel Plants, Automotive Plant

Controller

On Off Controller



Feature

- Controller output (relay)
- Limit value output (relay) for alarm indication
- Analog output configurable as actual value output, setpoint value output, or logic output 0/10 V for control of solid state relay
- LCD display for process information
- USB interface on front and setup program for simple startup

Application

Control of temperatures, pressures, and other process variables

Fuji

Honeywell

Siemens

Wika

Dwyer

Omron

Multi Loop Controller



Feature

- Cost effective to control complex systems.
- Flexible and can be reapplied to control other systems quickly and easily.
- Computer skills allow more sophisticated control.
- Troubleshooting accessories make programming easier and reduce downtime.

Application

Continuous bottle filling system, Batch mixing system, stage air conditioning system, Traffic control

Fuji

Honeywell

Siemens

Wika

Dwyer

Jumo

Programmable Logic Controller(PLC)



Feature

- Cost effective to control complex systems.
- Flexible and can be reapplied to control other systems quickly and easily.
- Computer skills allow more sophisticated control.
- Troubleshooting accessories make programming easier and reduce downtime.

Application

Continuous bottle filling system, Batch mixing system, stage air conditioning system, Traffic control

Honeywell

Siemens

Schneider

Omron

Fuji Electric

Allen-Bradley

Distributed Control System(DCS)



Feature

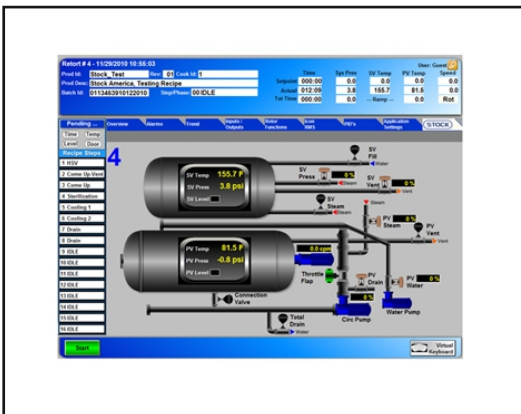
- Data presentation is in a systematic format enabling easy comparison of various
- Parameters and taking decision by a printer.
- Logging of data is done by a printer thereby eliminating human error.
- It is possible to control through dynamic graphic.
- Operator's action can be logged, thereby eliminating confusion.
- The alarm system can be regrouped.
- Complex computations, analysis, etc. can be carried out easily.

Application

Chemical plants, Petrochemical (oil) and refineries, Pulp and Paper Mills, Boiler controls and power plant systems, Nuclear power plants, Environmental control systems, Water management systems, Water treatment plants, Sewage treatment plants

Emerson	Honeywell	Siemens
Schneider	Mitsubishi	Allen-Bradley

SCADA



Feature

- The system provide facility to store large amount of data.
- The data can be displayed in various formats as per user requirements.
- It provides interface to connect thousands of sensors across wide region for various monitoring and controlling operations.
- It is possible to obtain real data simulations with the help of operators.
- Many types of data can be gathered from RTUs (Remote Terminal Units) connected with the master unit.

Application

SCADA systems are used for monitoring a variety of data like flows, currents, voltages, pressures, temperatures, water levels, and etc., in various industries. If the system detects any abnormal conditions from any monitoring data, then the alarms at the central or remote sites will be triggered for alerting the operators through HMI. There are numerous applications of SCADA systems, but a few most frequently used SCADA applications include:

Emerson	Honeywell	Siemens
Schneider	ABB	Allen-Bradley

Control Panel

Process Control Panel



Feature

- Survivability in its mounting environment.
- Simple Operator controls.
- Ease of maintenance.
- Ease of interfacing it with plant monitoring and control systems.

Application

Chemical Plants, Food Industries, Pharma Industries, Process Industries

Flow Control Panels



Feature

- Easy to operate
- Highly Reliable
- Robust construction
- Low Maintenance

Application

Flow measurement in industries, Flow monitoring in different process industries, Specially designed for flow.

VFD Panel



Feature

- Adjustable speed
- Adjusting speed of different motors according to process
- Easy to use
- Operator friendly

Application

Batch process manufacturing Continuous process industries Controlling blowers and fans

LT Panel



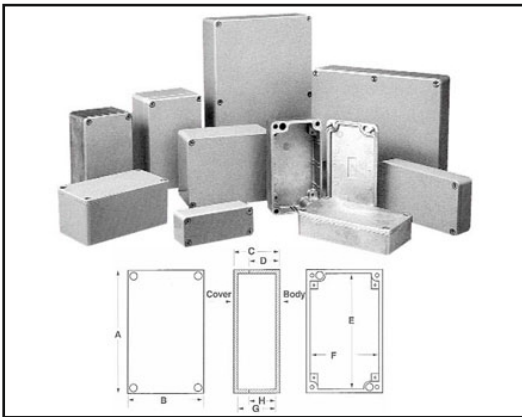
Feature

- Hassle free Maintenance
- Highly efficient
- Specifically design, user friendly, dust & Vermin proof modules, Flush mounted meters to indicates line voltage & current.
- Provision of incomer cable form to bottom enables you to install the panel in existing panel room without the requirement of civil trenches.

Application

Medium to High capacity Manufacturing Industry Hospitals
Educational Institutions Commercial Complexes

Aluminum Enclosure



Feature

- Good resistance to chemical attack (painted)
- High impact resistance
- Wide operating temperature range
- Easy earthing
- Good heat sink properties
- Rigid construction

Application

Hazardous areas Process industry Machinery
Transportation Port facilities Packing industry

Pneumatic Rotary Actuator



Standard & Technical Data

- Movement : Standard adjustable $90^{\circ} \pm 5^{\circ}$
- Lubrication : All moving parts are lubricated for life-long cycle
- Cycle Life : 1,000,000 Operations
- Body : Hard anodized extruded Aluminium alloy
- Indicator : Open /Close Disc
- Travel Stops : External adjustable $\pm 5\%$ in both open/closed position
- Springs : High tensile spring sets of alloy steel
- Piston Shaft : Nickel plated alloy steel reduces friction
- Piston Guides : Self lubricating (Polypropylene + GF) Piston Seals Nitrile**
- Piston : Die casted aluminium dual piston
- End Caps : Polyester coated die cast aluminium

Working Pressure

Standard Temperature : $-20^{\circ} \sim +80^{\circ}$ Degree

Low Temperature : $-50^{\circ} \sim +80^{\circ}$ Degree

High Temperature : $-15^{\circ} \sim +150^{\circ}$

Range of Standard Accessories are Available for Direct Mounting

Solenoid Valve

Limit Switch Boxes

Electro-pneumatic Positioner

Declutchable Manual Override Gearbox

High Visibility Indicator

Electric Actuator



Standard & Technical Data

- Indicator : Dome Type(Option: LED Light Inside)
- Ambient Temperature : $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Limit Switches : 2 open/close+dry contact 2 open/close
- Manual Operation : Hex key (Option: Handwheel)
- Space Heater : 5W(110/230VAC,24VDC)
- Lubrication : Aluminum base grease(EP type)
- Surface Treatment : Anodizing
- Enclosure : Waterproof Level IP67,NEMA4 and 6
- Power Supply : AC110/220V 1PH $\pm 10\%$ 50/60HZ.DC24
- Travel Angle : $V90^{\circ} \pm 5^{\circ}$ (Extension up to 270°)
- Self Locking : Provide self locking by worm gear
- Conduit Entries : 2PF 1/2"(Option:M20x1.5,NPT1/2")
- External Coating : Dry powder, epoxy polyester
- Material : Aluminum Alloy,Steel,Alloy Bronze

Performance Features

Housing : Aluminum alloy, epoxy powder coated

Gear : Steel / aluminum bronze

Screws : Stainless steel

Indicator Cover : Polycarbonate

Shaft / Adaptor : Alloy steel

Seal : NBR

Lubrication : Aluminum based grease

Main Product Features

Designed for small quarter-turn applications. Protection class to IP67, NEMA4 and 6. The Actuator can automate the valves requiring up to 270 degree rotation. To help protect the components and extend the actuator's life, an anti-condensation A thermal protector is provided to protect the motor from over heating.

Pneumatic Ball Valves



Standard & Technical Data

- SIZE : 25 MM TO 100 MM
- BODY : WCB / CF8 / CF8M
- BODY MOULDING : FEP/PFA
- BALL : S.S
- BALL MOULDING : FEP / PFA
- BALL SEAT : PTFT / GFT / CFT
- ACTUATOR MOUNTING BRACKET : S.S
- TEMP. : MAX UPTO: PFA-180°C| FEP-230°C
- END CONN. : FLANGED END
- RATING : 150#

Main Features

- Quarter-turn (90°) fast operation
- Pneumatically actuated (air operated)
- ISO 5211 direct mounting design
- Tight shut-off, low leakage
- Compact, robust construction
- Wide pressure & temperature range
- High flow capacity, low pressure drop
- Compatible with solenoids, limit switches & positioners
- Suitable for industrial automation applications

Manual Ball Valves



Standard & Technical Data

- SIZE : 15 MM TO 300 MM
- BODY : WCB /CF8 /CF8M
- BALL : CF8 /CF8M
- SEAT : PTFE /GFT /CFT / PEEK
- STEM : S.S.304 /S.S.316
- TEMP. : UPTO 180°C /220°C / 250°C
- OPERATION : HANDLE /GEAR
- CLASS : 150# /300#

Main Features

- Quarter-turn (90°) manual operation
- Simple lever or gear-operated design
- Tight shut-off (bubble-tight sealing)
- Low torque, easy to operate
- Full bore / reduced bore options
- Minimal pressure drop
- Robust and corrosion-resistant construction
- Wide pressure and temperature range
- Easy installation and maintenance
- Suitable for isolation service in industrial pipelines

Pneumatic Butterfly Valves



Standard & Technical Data

- SIZE : 40 MM TO 600 MM
- MODEL : LE-BV-A 10
- BODY : C.I /WCB
- DISC : S.G. IRON /WCB / CF8 /CF8M
- SEAT : EPDM /NITRILE
- PRESSURE : UPTO PN 10 /PN 16
- TEMP. : UPTO 120°C
- END CONN. : WAFER TYPE
- RATING : PN 10 /PN 16

Main Features

- Quarter-turn (90°) pneumatic operation
- Fast opening and closing action
- Compact and lightweight design
- ISO 5211 direct actuator mounting
- Suitable for on/off and modulating service
- Low air consumption
- Tight shut-off with resilient or metal seats
- Wide pressure and temperature range
- Compatible with solenoids, limit switches & positioners
- Ideal for large-diameter and automated piping systems

Manual Butterfly Valves



Standard & Technical Data

- SIZE : 40 MM TO 600 MM
- BODY : C.I /WCB
- DISC : S.G. IRON /WCB / CF8 / CF8M
- SEAT : EPDM /NITRILE
- SHAFT : AISI 410
- OPERATION : HANDLE /GEAR
- CLASS : PN 10 /PN 16

Main Features

- Quarter-turn (90°) manual operation
- Lever or gear-operated design
- Compact, lightweight construction
- Simple and cost-effective solution
- Tight shut-off with resilient or metal seat
- Low pressure drop, especially in large sizes
- Easy installation between flanges (wafer/lug type)
- Minimal maintenance requirements
- Suitable for isolation and throttling service
- Widely used in water, HVAC, and industrial applications

Control Valves



Standard & Technical Data

- SIZE : 25 MM TO 150 MM
- MODEL : FCV
- BODY : WCB /CF8 /CF8M
- BONNET : WCB /CF8 /CF8M
- SEAT : PTFE / GFT / METAL TO METAL
- TEMP. : UPTO 450°C MAX
- END CONN. : FLANGED END
- CLASS : 150# /300#

Main Features

- Precise regulation of flow, pressure, or temperature
- Automatic operation via actuator (pneumatic / electric / hydraulic)
- Suitable for modulating control
- High accuracy and repeatability
- Available in globe, ball, butterfly, and diaphragm designs
- Compatible with positioners and control signals
- Wide range of sizes, materials, and pressure classes
- Designed for stable and smooth control
- Robust construction for continuous operation
- Used in process control and automation systems

Cylinder Valves



Standard & Technical Data

- BORE SIZE : 40 MM TO 100 MM
- MODEL : LTM
- STROKE : UPTO 2000 MM
- BARREL : ALUMINIUM
- END COVER : ALUMINIUM
- PISTON ROD : EN8 /SS (CHROME PLATED)
- SEAT : NITRILE /VITON
- MOUNTING : STANDARD MOUNTING
 - DOUBLE ENDED CYLINDER ON REQUEST
 - VITON ON REQUEST

Main Features

- Control air flow to pneumatic cylinders
- Fast and reliable switching operation
- Suitable for single-acting and double-acting cylinders
- Manual, mechanical, solenoid, or pneumatic actuation options
- Compact and lightweight design
- High cycle life and low maintenance
- Quick response and precise control
- Standard port sizes and mounting options
- Operate with clean compressed air
- Widely used in industrial automation and machinery

Gate And Globe Valves



Standard & Technical Data

- SIZE : 15 MM TO 50 MM
- BODY : CF8 /CF8M
- BONNET : CF8 /CF8M
- PLUG : CF8 /CF8M
- SHAFT : CF8 /CF8M
- SEAT : PTFE /GFT /CFT
- HAND WHEEL : CAST IRON
- END CONN. : FLANGED END
- PRESSURE : PN 16
- TEMP. : 180°C /220°C

Main Features

Gate Valves

- Linear, full-port design for on/off service
- Minimal pressure drop when fully open
- Suitable for isolation of pipelines
- Rising or non-rising stem options
- Robust construction for high pressure and temperature
- Suitable for various media including water, oil, and gas
- Requires multiple turns to open/close (not ideal for throttling)

Globe Valves

- Linear motion for throttling and flow regulation
- Precise control of flow rate
- Higher pressure drop compared to gate valves
- Available in globe, angle, and Y-pattern designs
- Suitable for high-pressure and high-temperature applications
- Easy to maintain and repair
- Ideal for process control in pipelines

Forged Steel Valves



Standard & Technical Data

- SIZE : 15 MM TO 50 MM
- BODY : ASTM A-105
- BONNET : ASTM A-105
- WEDGE : 13% CR. STEEL (AISI 410)
- SEAT : 13% CR. STEEL (AISI 410)
- SPINDLE : 13% CR. STEEL (AISI 410)
- GASKET : S.S 304 WITH GRAPHITE
- OPERATION : HAND WHEEL
- CLASS : 800# /1500#

Main Features

- High-strength forged steel construction
- Suitable for high pressure and temperature
- Leak-tight sealing with metal or soft seats
- Compact and durable design
- Versatile end connections (threaded, socket weld, butt weld)
- Resistant to corrosion and wear
- Ideal for oil, gas, chemical, and power applications
- Compliant with ASME B16.34 / API 602 standards

Check Valves



Standard & Technical Data

- SIZE : 50 MM TO 300 MM
- BODY : WCB /CF8 /CF8M
- COVER : WCB /CF8 /CF8M
- HING : WCB /CF8 /CF8M
- SEAT RING : CS+13% CR FACING /S.S.410
- DISC : WCB /CF8 / CF8M
- HING PIN : ASTM A 276 /410 / 304
- CLASS : 150# /300#

Main Features

- Allow flow in one direction only
- Prevent backflow in pipelines
- Automatic operation (no manual control)
- Low pressure drop
- Various types: swing, lift, ball, or wafer
- Durable and reliable for industrial applications
- Suitable for water, oil, gas, and chemical systems

Strainer Valves



Standard & Technical Data

- SIZE : 25 MM TO 300 MM
- BODY : WCB /CF8 /CF8M /CI
- COVER : WCB /CF8 /CF8M /CI
- SCREEN : S.S.304 /S.S.316 (40 MESH)
- GASKET : GRAPHOIL FILLER S.S.304 SPIRAL
- NUT : ASTM A 193 GR.B7
- CLASS : 150#

Main Features

- Remove debris and particles from pipelines
- Protect pumps, valves, and equipment
- Simple, reliable operation
- Available in Y-type, T-type, or basket-type
- Easy to clean and maintain
- Suitable for water, oil, gas, and chemical services
- Durable construction for industrial applications

Steam Trap & Sight Glass



Standard & Technical Data

- SIZE : 25 MM TO 150 MM
- BODY : MS /CF8 /CF8M
- END CONN. : FLANGED END
- CLASS : 150#

Main Features

- **Steam Trap**
- Automatically discharge condensate from steam systems
- Prevent steam loss while removing water
- Reliable and maintenance-friendly
- Various types: thermostatic, mechanical, thermodynamic
- Suitable for industrial steam applications

Sight Glass

- Visual monitoring of liquid level in tanks or vessels
- Transparent and durable construction
- Easy installation and maintenance
- Suitable for water, oil, chemicals, and steam systems

OUR ACTIVITIES

- Repair & Servicing of Manual Valves, Control Valves, Safety Valve, PRV and Isolation Valves.
- Supply & Apply of Gland Packing
- Steliting, Chrome/Tungston Coating.
- On line servicing of high pressure Valves.
- Vacuum Testing of Valves
- Supply of Valve Parts specially Gland Packing, PTFE/Devlon/Peek Seal, Graphite /SPW/ Metalic Gaskets, O Rings etc.
- Gear Box Overhauling & Greasing
- Fabrication & Supply of Gear-Box & Hand wheel
- Repair & Servicing of Power Cylinders and Dampers
- Supply & Retrofitting of Valve Accessories
- Modification of Valves
- In situ lapping of Valves seat.

MACHINERY & TOOLS

- Lathe Machine Welding Machine Pillar Drill Machine
- Test Jig for Safety Valve/Control valves
- Multi Valve Hydro Testing Set Air Compressor
- In situ Lapping Machine EOT Crane
- Tools, Flanges, Lifting Equipments, Measuring Instruments,
- Grinders, etc in Sufficient Qty



OUR PROCESS

Every Valve entering the flow technology centre undergoes the same process, to assess its suitability for repair, replacement or upgrading.

- Initial Inspection
- Test
- Disassembly
- Digital photography of stripped-down valve
- Compilation of customers reporting detailing
 - repair and refurbishment work required, and cost
 - cost for replacement from stock (in most cases)
 - cost and lead time for ordered-in replacement

YOUR CHOICE

DEPENDING ON CUSTOMER'S CHOSEN ROUTE

■ Enter valve on customer-dedicated asset management database

■ Deliver to customer

■ Automatically notify customer when repaired/ replaced / upgraded valve are due for re-testing and re-certification

REPAIR



- Inspect valve
- Refurbish or repair to OEM Specification. We have the Capability to Reverse Engineer obsolete components
- Testing and certification (for pressure and safety valves)

REPLACE



- Source guaranteed 100% genuine product from on-site stock, or order-in
- Support with full manufacturer warranty

UPGRADE



- Site visit and valve survey by flow control engineer
- Provide upgrade proposal and costing

EXPERTISE IN FOLLOWING INDUSTRIES

- REFINERIES
- PETROCHEMICALS
- FERTILIZERS
- PAPER
- CHEMICALS
- FOOD & PHARMA
- OIL & GAS
- POWER PLANT
- TEXTILE



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