



Masibus Solution Offerings

Automation & Control | Condition Monitoring & Protection | Calibration |
Time Synchronization | Panel Manufacturing & Assembly | Services

From The Director's Desk

Masibus Automation Solutions Inspire Businesses

Building on the reputation of a highly reputed automation product company, Masibus diversified into automation solutions offerings by acquiring the distributorship of Citect SCADA/ HMI in the year 1995. Our core competency of data communication helped us to design, install and commission complex SCADA projects using Citect in diverse industries like power, steel, water, infrastructure, solar, pharma etc. Today we are the first and only Certified Training Provider (CTP) for Citect SCADA 2016 and the only company in India to get Citect SCADA 2016 expert certificate.

Encouraged with the success of Citect partnership, we tied up with and introduced TOSHIBA DCS systems in the Indian market in 2003. The combination of the most advanced DCS system and best performing Citect HMI/ SCADA helped us execute the most challenging automation solutions.

Over the years we also added electrical and mechanical condition monitoring solutions based on products such as digital fault recorders, sequence of event recorders, vibration monitoring system and time sync servers to name a few. Our vibration based condition monitoring solutions has the highest performance/ price index, we offer contact and non-contact condition monitoring and protection systems for critical rotating equipments like motors, pumps, fans, turbines, compressors, etc. in industries such as power, cement, steel, water and many more.

Today Masibus provides the most advanced and proven technologies in automation, control, SCADA and electrical/ mechanical condition monitoring and protection systems. We have established proven track records in every application and every industry type.

Masibus caters to the Middle East and African region through our subsidiary in the UAE. We have executed some of the finest projects in UAE like Power Management System for a 7-star hospital in Abu Dhabi, SCADA system for "Mazdar" the world's first "Zero" emission city, total control and instrumentation systems for micro refineries, online balancer for cement plant, etc.

In the year 2014 we established an ultra-modern automation and control panel building facility, completely dust free and air conditioned. We can stage up to 150 panels at a time with complete setup to test, simulate IO and do FAT. The facility is being used by leading MNCs from Japan, USA and Germany for their prestigious projects in India and abroad.

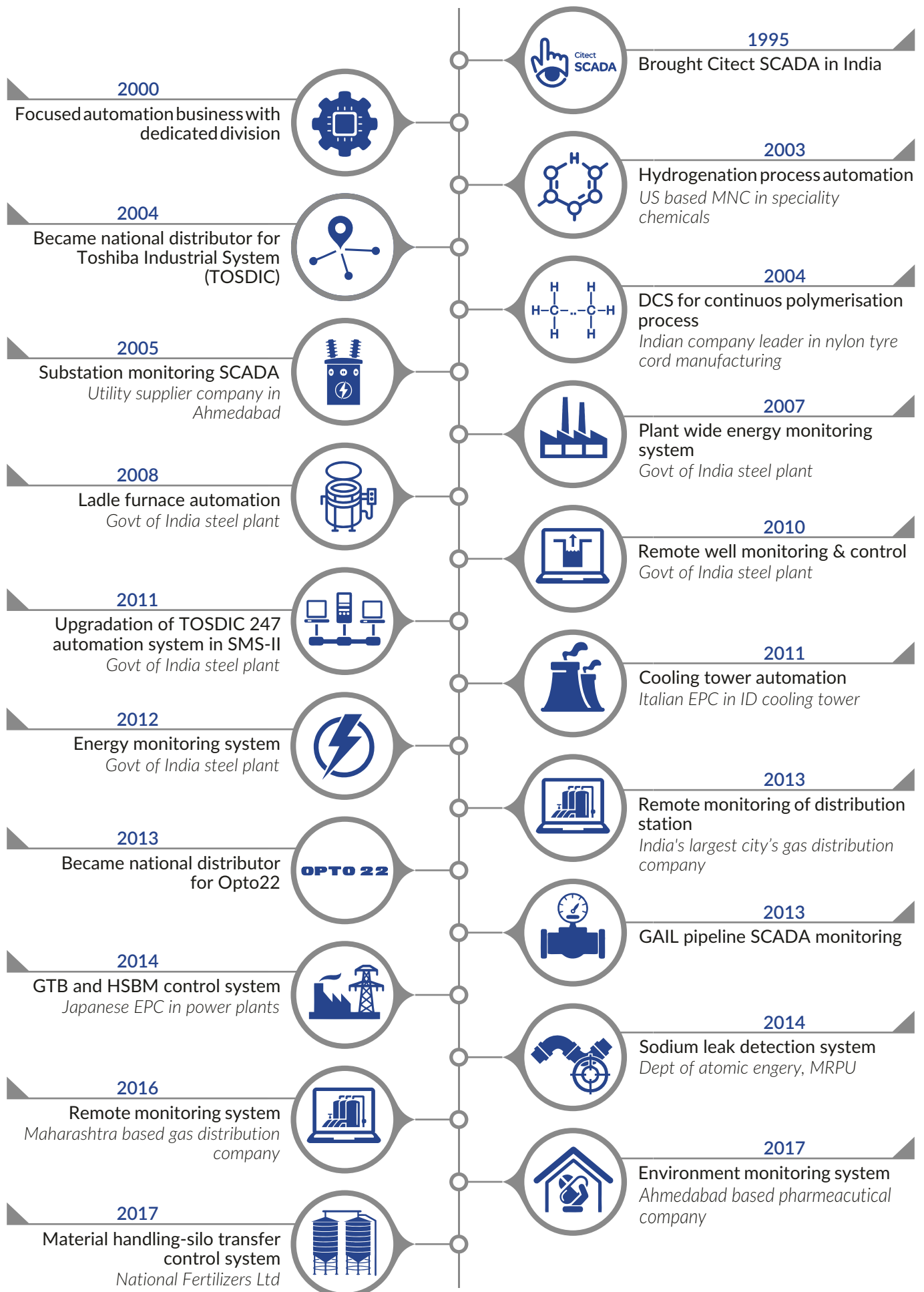
Presently Masibus' focus is on developing world class solutions for solar and pharma industries, also we have developed best in class hardware products for IIoT applications. We have the most advanced Environment Monitoring System for the pharma industry, the best performing String Monitoring and SCADA for the solar industry and a whole range of products compatible for IIoT applications.

I am sure you would have used our various products, now give us a chance to satisfy you with our various solutions.

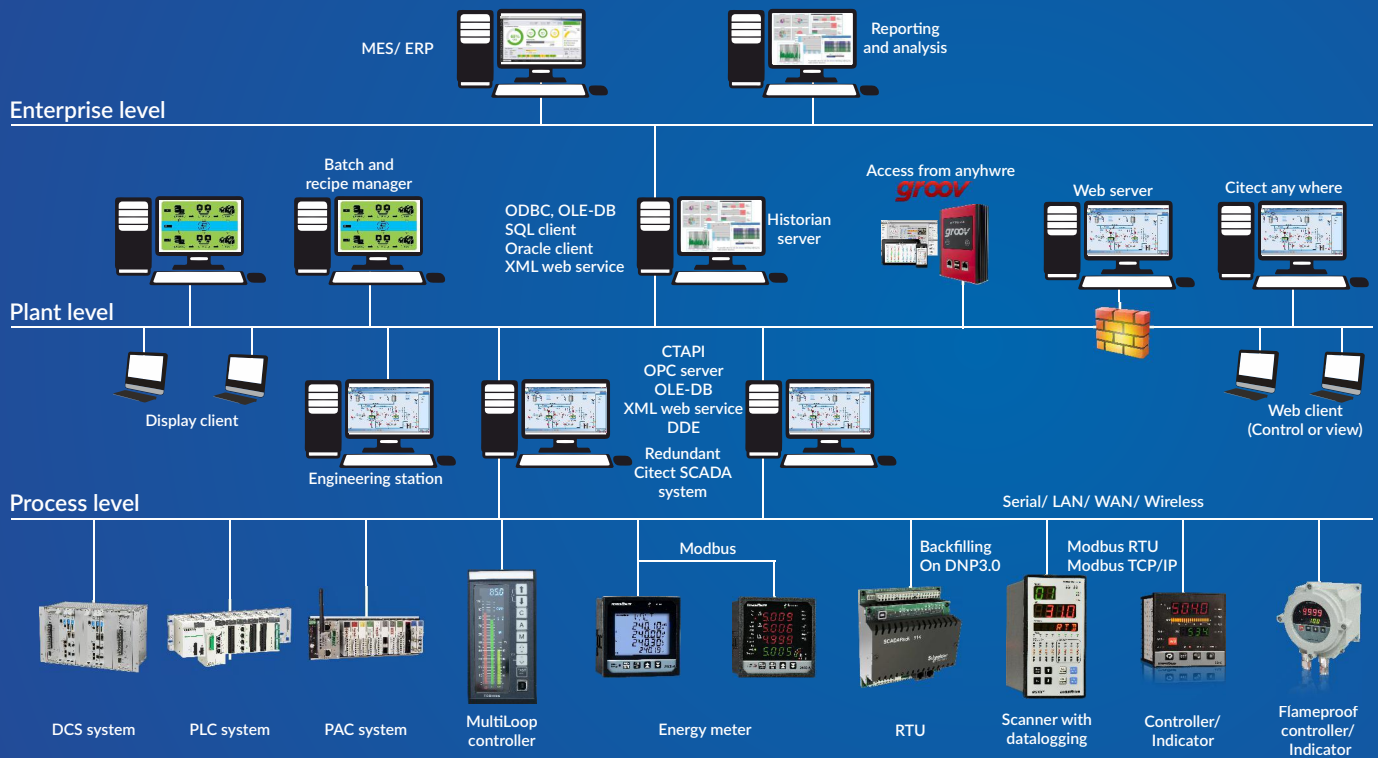
Dominic Cordeiro
Technical Director



Solutions Division Timeline



Automation & Control Solutions



SCADA/ DAQ Applications

Masibus has been providing end to end SCADA solutions to control industrial processes locally or at remote locations and helping clients monitor, gather and process real-time data. Some of the key applications with successful SCADA installations are:

- Energy/ utility monitoring system
- Environment data monitoring system
- Solar plant SCADA
- USFDA 21CFR complied SCADA system
- CNG/LPG gas station SCADA
- Remote monitoring system
- Plant wide SCADA system
- City power distribution/ substation SCADA
- Boiler tubes temperature monitoring system
- Pipeline SCADA/ pumping station SCADA
- Building management system
- Equipment performance monitoring/ testing system
- Middleware system
- Alarm management system

DCS/ PLC based Applications

- Boiler & turbine automation
- Furnace automation
- Water & waste water
- Chemical
- Distillation column
- Fire fighting solution
- Reactor automation
- HVAC control system
- Signal conditioner for weighing system & MCC application
- Turnkey based control and instrumentation solution

Verticals



Steel



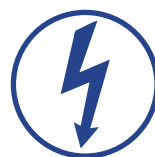
Chemical



Pharmaceutical



Petrochemical



Power



Oil & Gas



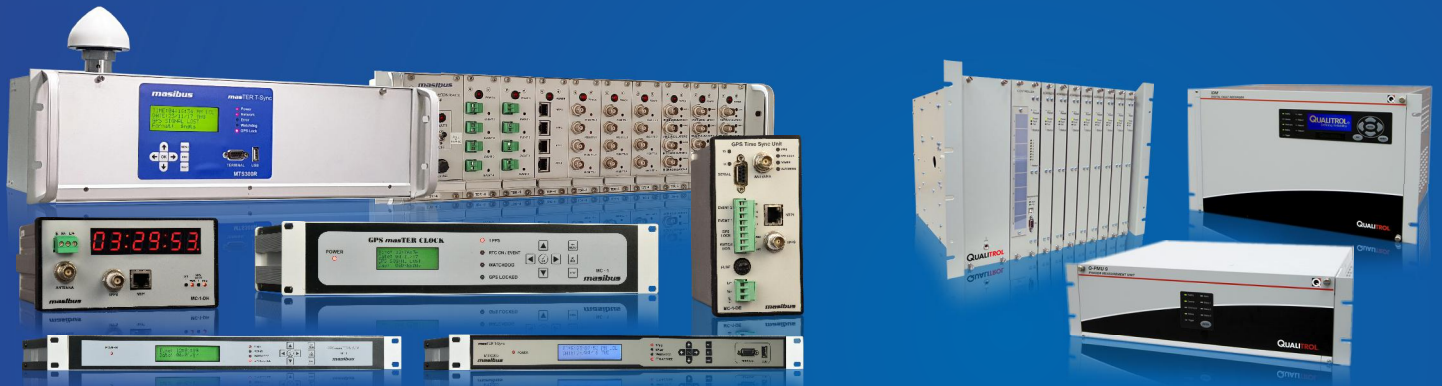
Cement

Technology Partners

QMS system: ISO 9001:2008



Time Synchronization & Event Recording



GPS Master Clocks

Event/ Fault Recorder



Digital Slave Clocks

GPS Master Clocks

- Masibus GPS master clocks come with excellent features, high performance and cost-effective synchronization solutions
- They are available in multiple options: 19" rack mount (1U, 2U & 3U sizes), din rail mount, wall & panel mount, redundant and non-redundant.
- Multiple output options like PPS, NTP, PTP, PRP, NMEA-0138 (RMC), NGTS, T-format
- SNMP, SSH, SCP, HTTP, HTTPS, SYSLOG, Telnet and other networking protocols

Digital Slave Clocks

- 4" (100mm) large display slave Clock - DDU is a versatile, cost effective and multi-featured time code driven clock display
- It decodes various time protocols like IRIG-B modulated, IRIG-B TTL, NTP (ethernet) and serial (NGTS, NMEA and T-formats)
- Available in many variants – Time, Date, Frequency, Day, ABT & Calendar display

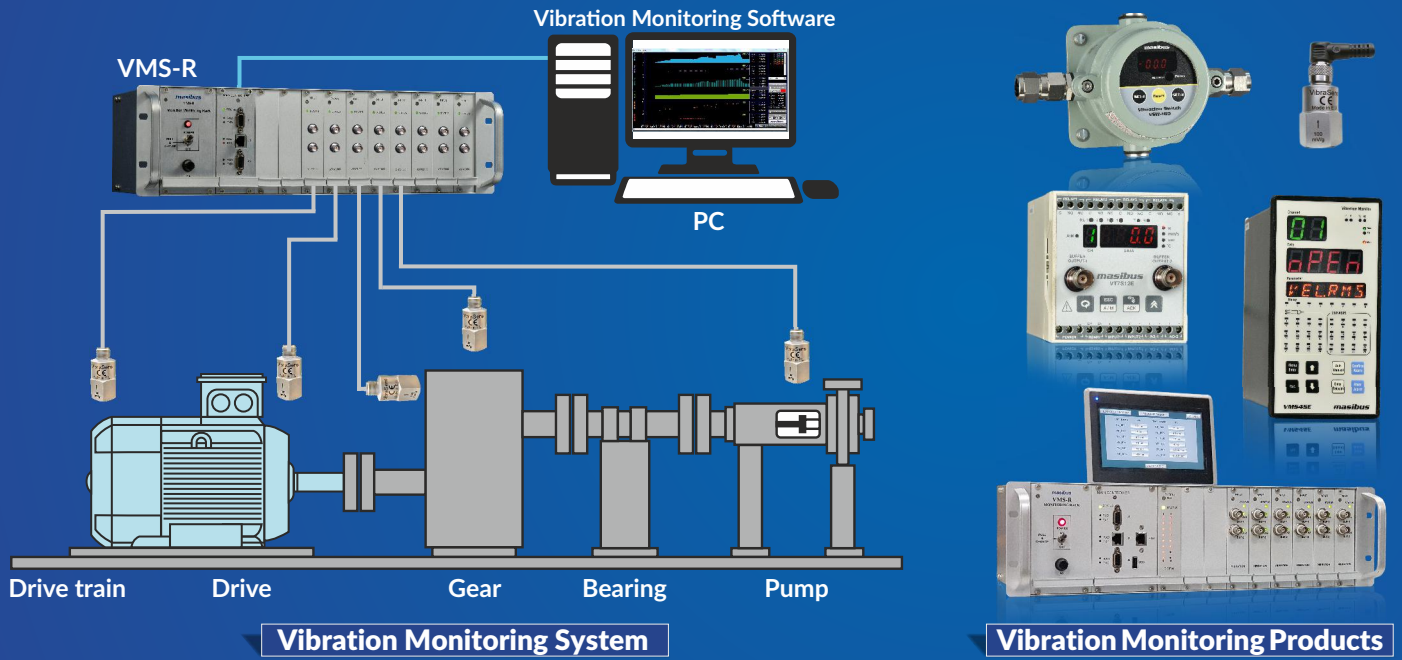
Event/ Fault Recording Solutions

- Event logger 512 digital input in main chassis & expandable up to 4096 DI
- Disturbance recorder ranging from 9AI to 36AI
- Alarm monitoring and post event analysis for a wide range of applications in transmission, generation and industrial processes
- Comprehensive power system monitoring at minimum cost for substations and generating stations
- Wide area measurement, protection and automation applications based on streaming synchronized phasor measurements and digital status

Technology Partner

QUALITROL®

Conditioning Monitoring Solutions



Masibus Vibration Monitoring Offerings

- Online vibration monitoring system
- Online thrust monitoring system
- Online ID/FD/PA fan, BFP monitoring system
- Online cooling tower fan, pumps, blower, crusher monitoring system
- Machine protection and monitoring
- Online balancing system

Solution Brief

- Vibration monitoring and vibration protection system is cost effective and efficient system for critical rotating machines. It monitors healthiness of the rotational machinery
- Elements like seal failure, bearing failure, poor lubrication, coupling problem, misalignment and fan/ blower imbalance can be monitored using online vibration monitoring system
- Bearing condition, casing vibration and fan vibration can be measured online
- Machine protection system is intended for measurements of shaft axial position in thrust bearing, shaft differential thermal expansion, case absolute thermal expansion; bearing case absolute vibration, shaft relative vibration; valve position and phase angle/ rotating speed

Solution USP

With many of our manufactured vibration products and technology partners' products, we are successful to provide innovative and customized solutions to our customers in various segments. Our solution helps them to increase productivity, efficiency and managing maintenance costs.

It provides early warning of mechanical failures of rotating machineries thus providing minimal downtime and production losses.

Applications

Vibration monitoring products can sense vibrations in terms of acceleration, velocity and displacement for machines such as: cooling towers, fans blowers, gear boxes, pumps, motors conveyors, air compressors, air handlers, roll and process equipment, spindles, pulp and paper dryer sections.

Technology Partners



Hofmann.

Intelligent Balancing Solutions

Calibration Test Bench



Multifunction Test Bench

Features

- Quick & easy start-up, safe work space environment and easy maintenance
- Made of heavy grade, high quality CRCA and aluminium fabrications
- Complete aluminium profile based option availability
- Accurately fabricated, welded & powder coated structure
- Smooth surface & ultra simple to clean, superior quality & sleek look
- Table top: laminated chip board of 25 mm thickness
- Load capacity: 200 kg, modular design enabling easy change of arrangement
- Proper electrical earthing provided on test bench
- Manual/ automatic pressure & temperature calibration choice
- Flexible maintenance – device modular structure
- Documenting version available with PC connectivity
- Options for HART, PA, FF communication available
- Calibration management software with regulatory compliance 21CFR Part 11, ISO 17025 & CGMP

Applications

- Periodic calibration of temperature & pressure sensors, transmitters, switches & recorder, thermocouple & RTDs
- Differential pressure transmitter/ gauges/ switches I/P converter
- Testing & maintenance of electrical & electronics devices
- Soldering & desoldering of SMD & through hole electronic components

Types

- Multifunction test bench
- Pressure test bench
- Temperature test bench
- Electrical & electronics test bench

Technology Partners

beamex

MARTEL
ELECTRONICS

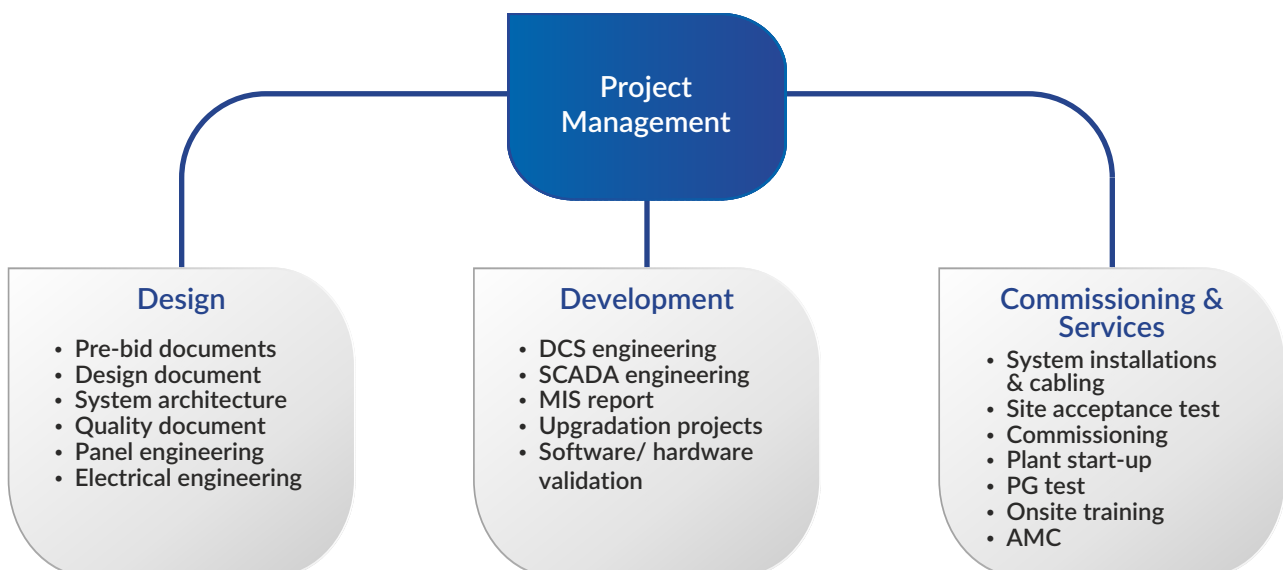
Panel Manufacturing & Integrated Testing



Key Features

- 1500 sq. mtr. of dedicated panel manufacturing premise - world-class, complied to and approved by international agencies
- Dedicated team of engineers, sales & marketing, wiring & packaging
- Our offerings:
 - Control and automation panel
 - Pre wired customized DCS/ PLC panels, instrument panels, flame proof enclosure panels, junction boxes, operator desk & consoles as per client requirement
- Integration:
 - Customer inspection
 - Factory Acceptance Testing (FAT)
 - Integrated Factory Acceptance Testing (FAT)
- Quality, design & documentation:
 - Panel layout drawings (IGA, OGA, etc)
 - Panel wiring drawings
 - Panel power distribution drawings
 - Panel inspection and Factory Acceptance Test document
 - Start-up and commissioning document
 - Manufacturer's Record Book (MRB)

Delivery Model



Services



Annual Maintenance Contract:

We provide cost efficient AMC during or after warranty period to our customers to provide quick and immediate access to solutions without emergency breakdowns.

Spare Systems:

Back up systems as spares allow customers timely solution during emergency without going through logistical or procurement delays.

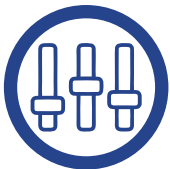


Product/ Software Upgradation:

We act as a touch point for product and software upgrades as and when they are released from manufacturers; reducing the time spent.

Online Remote Support:

In case of emergencies; online remote support serves as an ideal solution to customers as it avoids logistical delays, allows them to get a hands on experience of the solution and an immediate resolution.



Automation/ Control System Validation:

Masibus acts as the touch point for periodic validation of the automation system for all hardware and software functionality.

SCADA 21CFR Compliance Upgradation:

The service offers non-editable data from SCADA software to maintain sanctity of data, avoiding manipulation and misuse as per compliance requirements of USFDA.



SCADA System Re-Validation:

Revalidation of the automation system is essential to provide error free measurement reading; this is specific to pharma industry.

Thermography Services:

We provide survey and inspection of electrical installations and mechanical equipments for hotspots; providing preventive maintenance and reduced downtime of the system.



Extended Warranty:

This is ideal for customers who wish to avoid AMC or multiple vendor interactions; extended warranty allows them to maintain a single touch point for all their system issues.

Test Bench Calibration:

Test benches provide on the spot calibration of instruments which means the test bench itself should be constantly upgraded and maintained by traceable international master calibrators. Masibus provides the same as a field service at site.



Trainings:

To enhance technical knowledge on various platforms, Masibus provides certified training programs on SCADA, PLC, DCS & other offered solutions.

Project Offerings & Customer Base

Project Offerings



Metal

- Plant SCADA System
- LD Furnace Automation & Optimization
- Sponge Iron Plant Automation
- Control System Modernization
- Reheat Furnace Automation & Optimization
- Furnace Automation
- Wireless Data Management
- Lab Package



Power

- Plant SCADA System
- Boiler Automation & Efficiency
- Ash & Coal Handling System
- Induced Draft Cooling Tower Automation
- Turbine Automation
- SCADA System for DG Set/ Substation
- Steam Leak Detection System
- Lab Package
- Vibration Monitoring System for Cooling Tower Fan



Cement

- Plant Automation/ Modernization
- Ball Mill/ Grinding Unit Automation
- Packing Plant Automation
- Wireless Operation of Stacker & Reclaimer
- Downtime Monitoring System
- Event Messaging System
- Lab Package
- Vibration Monitoring System for ID/FD Fan



Chemical/ Pharma

- 21CFR Compliant SCADA System
- Fermentation & Reactor Automation
- Vapor Phase Drying Plant
- Polymerization Plant DCS/PLC
- Hydrogenation Process Automation
- Effluent Treatment Plant
- Utility Monitoring SCADA
- Distillation Column
- Lab Package



Others

- Water Generation - Bore Well SCADA
- Pumping Station SCADA
- Wireless Data Management
- Water Treatment Plant
- Waste Water Treatment Plant
- Custody Transfer - SCADA
- Gas Station SCADA/ Pipe Line SCADA
- Off-Shore Control Applications
- Lab Package

Few of our Esteemed Customer Base

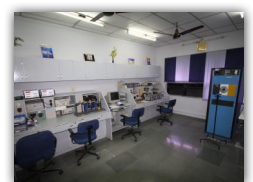
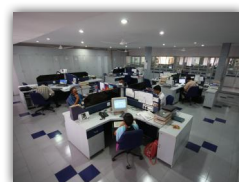


Corporate Data & Images

Corporate Name: Masibus Automation and Instrumentation Pvt. Ltd.
Managing Director: K. Subramaniam
Head Office: B-30, GIDC Electronics Estate, Sector - 25, Gandhinagar - 382044, Gujarat, India
Workforce: 200+
Infrastructure:

- Head office at Gandhinagar, Gujarat
- Production manufacturing units at Gandhinagar & Goa
- Panel manufacturing & assembly at Gandhinagar, Gujarat

Subsidiaries/Area Offices: 8 across India + 1 international office in Sharjah, UAE



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