BRAND AUTOMATION

Brand automation

Business thru' customer satisfaction

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- AC DRIVE
- PLC
- HMI / MMI / SCADA
- AC SERVO SYSTEM
- ENCODER
- AC GEAR MOTORS
- TEMP.CONTROLLER
- CNC CONTROLLER
- MOTION CONTROLLER
- SERVO SPEED REDUCER
- SMPS
- SENSOR
- VISION SYSTEM
- LASER MARKER
- CONTROL PANEL

Authorised Channel Partner

DELTA | Panasonic ideas for life | TRIO MOTION TECHNOLOGY | Baumer | SHIMPO | ADVANTECH

Our Dealing Brand

MITSUBISHI ELECTRIC | OMRON | BANNER | Autonics Sensors & Controllers

Advanced
Certificate course in

INDUSTRIAL AUTOMATION TRAINING @ MADURAI

- PLC
- SCADA
- HMI
- VFD
- Servo Motor &Drive
- Motion Control
- Panel Designing
- Field instrumentation

Real Time Exposure of **Automation Industries**

e mail : training@brandautomation.co.in

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Our Training Brands

Rockwell Automation · Allen-Bradley · SIEMENS · Panasonic · DELTA
Fuji Electric · ABB · MITSUBISHI ELECTRIC · OMRON
LARSEN & TOUBRO · Schneider Electric · KEYENCE · ADVANTECH

No. 121, First Floor, TPK Road, Near Malai Murasu, MADURAI - 625 001. Ph : 0452 - 498 598 4

VARIABLE FREQUENCY AC DRIVE (VFD)

- **Micro Drive :** 40W to 400W
- **1 Ph / 230V :** 0.05 HP to 3 HP
- **3 Ph / 415V :** 0.5 HP to 600 HP
- V/F, Sensorless Vector, Flux Vector, Torque Control Modes
- FOC Control Mode for IM & PM motor
- Supports various network protocols
- Built in EMI filter & PID Feedback Control
- Inbuilt PLC Function*
- Auto Energy Saving Function
- Wide range of models to fit different industries
- Special Drive for Elevator, Elevator Door, Tread mill, Textile Crane, CNC Spindle, Fan & Pump Application

PLC

- PLC supports 256 DI / DO / 512 DI / DO / 1024 DI / DO
- Supports Modbus ASCII / RTU : RS232 / RS485 & Modbus TCP / IP / Ethernet I/P : Ethernet
- Program Capacity : 8K / 16K / 32K / 128K
- Support 100 KHZ / 200 KHZ : 4 CH & 6 CH High Speed Counter
- Supports 4-axes 200 KHZ / 2 axes 500 KHZ / 6 axes 200 KHZ Pulse output
- 2 axis linear & Arc Interpolation function
- RTC, Floating instruction & PID auto tunning function
- Special Module of Analog, Temperature, Position, Communication Port, BAC net, Load cell & Remote IO modules (Devicenet and Ethernet)
- Pulse type motion controller (2/3 axes) & CAN open type motion controller module support E-CAM, G-Code & M-Code
- High Speed Network Modules : Devicenet / CAN open / Ethernet / Profibus
- Power Input 230VAC or 24VDC with removable 10 terminal

MODULRIZED MID RANGE PLC FOR PROCESS INDUSTRIES

- Highly integrated software ISPSoft : 5 languages (IEC-61131-3)
- Enhanced flexibility : Max. 100m between 2 local extension racks
- Improved maintainability : Hot-swapping function keeps the system running
- Utilizes dual-core multi-tasking processor Execution Speed:0.3ms/1k step
- Max DIO : 4,352 points, AIO : 544 & RIO : Max. 125,440 DIO / 3,920 AIO
- CPU built-in with fully isolated RS-232/422/485, Mini-USB, Ethernet, SD Card 1.0
- Abundant selection of AIO modules, DIO modules, Temperature modules, Network modules, Pulse-train and DMCNET motion control modules, Devicenet and Ethernet based Remote 10 modules

AC SERVO MOTOR

- Rated Output : 10 W to 22.0 kW
- Rated Torque : 0.032 Nm to 140.0 Nm
- 23-bit Absolute / Incremental Encoder
- Position / Internal Position / Speed and Torque Control Modes
- 3.2 KHz Velocity Response Frequency
- Maximum 6500 RPM
- 8Mpps Exclusive Interface for Line driver Pulses
- Fit gain tuning function
- Full Close control with linear scale or external encoder
- Quadrant projection suppression function
- With / Without Holding Brake
- Built-in Electronic cam (E-CAM) function
- Modbus, EtherCAT, R-TEX Communication

HMI

- Text Panel with 2/4/8 line with max. 24 function keys
- Touch screen available in 4.3", 5.7", 7", 10.1" 12" & 15" with TFT LED display
- High resolution with 65536 color
- Graphic & text display
- 82 MB Flash ROM memory
- 3-communication port (RS232 / RS485 / RS422)
- Support SDHC card & USB host for data storing. User defined file name for CSV file storing
- Support USB Client for High speed download / upload
- Support USB Host for USB flash drive, Printer, Mouse and Barcode reader
- Support High speed Ethernet port
- Support Audio Output & different user level with Password Protection
- E-Remote software (PC + Android application) for remote communication
- E-Server software for Data logging application
- Supports Operation Log Viewer
- Ethernet Model supports FTP & Alarm Email Function (SSL sequrity)
- Supports Text Panel with Inbuilt PLC

AC GEAR MOTOR

- 1 Ph / 220V : 6W to 90W
- 3 Ph / 200V : 25W to 90W
- Reduction ratio : 1/3 to 1/180
- Induction Gear Motor
- Reversible Gear Motor
- Variable Speed Gear Motor
- Compact Size with powerful output
- High torque with low speed
- High Braking & holding torque
- Continuous duty rating
- Built in thermal overload protection
- Motors with lead wires or Terminal box (Sealed connector)

SENSORS

- Photoelectric Sensor
- Micro Photoelectric Sensors
- Digital Color Mark Sensor
- Inductive Proximity Sensors
- Digital Laser Sensor
- Digital Fiber Sensor
- Area Sensor
- Static Control Device (Static Remover / Ionizer)
- Safety Light Curtain
- Laser Scanner
- Digital Pressure Sensor
- Digital Flow Sensor
- Measurement Sensors
- Particular Use Sensor
- Ultrasonic Sensor
- Capacitive Proximity Sensor

VISION SYSTEM

- Advanced vision system with high end performance
- 0.3M, 2M, 4M gray / color camera options
- Dedicated stand-alone controller with upto 4 camera connection
- All major inspection functions / checkers available with pre-processing analysis
- Reading and verification of 1D, 2D, Pharmacode etc...
- Advance OCR/OCV tool for reading and verification of text
- Connects to a variety of PLCs
- Ultra high-speed data transfer by gigabit Ethernet

DIGITAL INDUSTRIAL CAMERA

- Excellent image quality and high frame rates, a camera design which enables rapid and flexible integration
- Wide variety of cameras in color and monochrome versions as well as resolution ranging from VGA to 25 megapixel
- The cameras are based on innovative technologies such as CCD & CMOS and include all relevant standard interfaces (GigE Vision Ⓡ , USB3 Vision™ and Camera Link Ⓡ)

LASER MARKER

FAYb LASER MARKER : 1.06 μm wavelength

- LP-V Series High speed marking at 700 cps, scanning speed: max. 12000 mm/sec., line speed: 240 m/min or less
- Energy saving design, complete air-cooling, long life, space saving design
- LP-S 500W A new standard black laser annealing
- Flexibility in work distance ± 15mm
- IP67 fan less head
- Simple mounting removable fiber unit

CO_2 LASER MARKER : 10.6 μm wavelength

- LP-310 New entry level model for Laser Marking
- LP-400 Series high grade model
- Standard and tower head model available
- Head rotation upto 350° allows flexible installation option

PRESSURE TRANSMITTERS

- Robust Stainless Steel Housing
- Wide Pressure Range from - 1 to 1000 Bar
- Fully welded and compact design
- Excellent Price / Performance Ratio
- Universal Output Signal 0 - 10V or 4 - 20mA & HART
- PNP Threshold switching output
- Support Media temperature upto 150°C
- High temperature resistance for SIP and CIP processes
- Flush Diaphragms and Non Flush Design
- Optional Display Facility
- 3A, FDA, EHEDG, ATEX, Approvals

LEVEL SENSOR

- Safe Detection of Liquid, Bulk Solid, Powder, Sticky Media
- Capable of differentiate between Foam & liquid, Oil & Water
- Alternative of vibrating forks type level sensors
- Compact Stainless steel housing, Hygienic Design
- Support Upto Max. Process Temperature - 40 - 200°C
- Level Measurement of Conductive material
- Output Signal : 4-20mA, PNP / NPN, NO / NC
- Configurable Measuring Range
- Available with 20Cm to 300Cm sensing rod length
- Food Compatible, Hygienic Design
- Wetted parts in acid-proof, stainless steel and PEEK material
- Variety of Process Mounting Connections
- 3A approved / FDA and EHEDG compliant

POSITION TRANSDUCER

- LT Series, PKM Series
- LTS Series Stroke 75-900mm
- PKM Series Stroke 100-1500mm
- High resolution output signal
- Easy installation and simple connection

PT - PRESSURE TRANSDUCER

- 0-200 Bar & 0-600 Bar
- 0-10V analog output
- Supply voltage : 24V DC - 3 wire

CNC CONTROLLER

- 1 ~ 6 Axes
- Type - 2+1 Turning or 3+1 Milling Controller
- 7" Or 8" Colour Display
- Inbuilt I/O (201 x 160) x 2, Expansion I/O Possible
- Ethernet, RS485 Port
- Absolute Encoder Connectivity
- 256MB SD Card Or 1GB CF Cards
- USB Port
- Macro Command
- Back Ground Editing
- Gantry function for Axis pair
- Linear or Rotary Axis Selection
- 1 ~ 9 Axis Controller
- 5.7", 8.0" & 10.4" Display
- Graphical simulation & MPG Function
- 48/32 I/O Inbuilt I/O and 192/128 Expansion I/O
- Program memory up to 512 KB (USB 2GB optinal)
- RS232 Comunication
- Gantry Function
- User can design PLC & Screen program
- User can design program by CAD / CAM
- Macro Command
- NPN - Input type

ENERGY SAVING SYSTEM FOR IMM

- Significant result of Energy Saving (Up to 87%)
- Reliable IMM Control Experience
- High Quality Servo Motor Drive Technology
- Most Energy Saved with Servo Motor
- Safety and Protection is the top priority
- Precise pressure control
- Computer control units Integration

SPEED REDUCER

- **Rated Output :** 6Nm to 3000Nm
- **Ratio :** 3:1 to 100:1
- Very precise performance
- Wide range of Applications in industries
- Inline - Right angle models available
- Easy to mount & assemble
- Life time lubrication free product
- Maintenance free product
- Freedom for 360° mounting
- Smooth rotation even at very low speed
- Low operating noise

Application

- Packaging Machines
- Machine Tools & Metal Forming
- Plasma CNC Cutting Machine
- Medicine MFG, Pharma Machines
- General Automation & Testing
- Printing Machines & Conveyors
- Semiconductor & Circuit MFG

MOTION CONTROLLER

- 1 1/2 axis to 64 axis controller
- Multi task programming using Trio basic software
- Support digital drives on RTEX, EtherCAT, SERCOS, Devicenet, CCLink & Profibus protocal
- Digital & Analog I/O Expansion module available
- Built-in Ethernet, CAN, RS232 & RS485 port
- Support SD card for memory data transfer

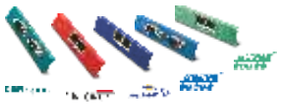
SCADA

- Client view support for mobile & PC
- Open real-time data connectivity : OPC, Modbus, BACnet, DDE Server
- Open offline date connectivity : SQL Server, Oracle, MySQL
- MS Access Database
- Redundant SCADA & Communication Ports
- Google Maps and GPS Location Tracking
- Support Customize Report
- Remote access to alarms, Data and E-mail alarms, SMS alarm notification
- Support LonWorks LNS and BACnet IP
- Ample Driver Support - Web Access support hundreds of devices
- Multi-touch gesture support
- Web-enabled video and audio integration
- Special Tools for Schenduler and EMS System

INDUSTRIAL PANEL PC

- Embedded Industrial Touch Panel PC (TPC), Automation Panel PC (PPC)
- Rack mount chassis PC which can be used for
- Widerange of industrial application
- Slim and compact 6 cm depth fanless design, Easy for space limited installation
- Varieties of Sizes available : 5.7", 6.5", 10", 12", 15", 17", 18.5" & 21.5"
- Varieties of Motherboard : SBC, Mini-ITX / Micro ATX, ATX
- Varieties of Intel processors : Intel Atom, Dual core, Core2 Duo
- Core2 Quad, Intel core i3, i5, i7, Celeron mobile
- Variety of OS support including : WES7, WinXP/XPe, WinCE and Linux
- Extremely rugged design with die-casting bezel & Aluminium housing
- Wide temperature range - 20deg ~ 60deg for harsh environment
- Front panel : NEMA4, IP65 certified & 2KV Isolation protection

INDUSTRIAL EMBEDDED BOX PCS



- Varieties of Intel processors : Intel Atom, Dual core, Core2 Duo
- Core2 Quad, Intel core i3, i5, i7, Celeron mobile
- 4 x GbE support IEEE 1588, 2 x USB 3.0 super-speed ports
- 4 x DI, 4 x DO, 1 x RS-232, 2 x RS-422/485
- DP + VGA dual display outputs
- Dual Power Inputs and Wide Temperature
- iDoor technology support with PCI Slot
- Extremely rugged design with die-casting bezel & Aluminium housing
- 2KV Isolation protection prevents damage from accidental shock
- Surge or ground loops
- Front panel : NEMA4, IP65 certified
- IEC 61850-3 and IEEE 1613 Certified Substation computers
- Class I, Division 2 Certification for Oil & Gas

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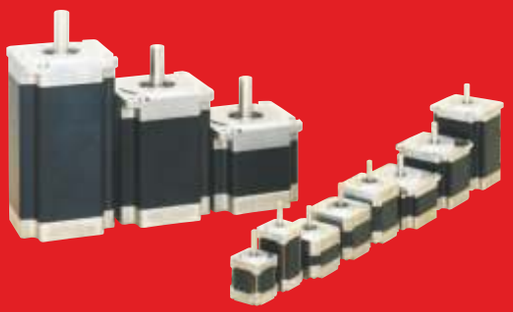
ROTARY ENCODERS

- Compact & Rugged Design
- **Resolution :** 100 ~ 480000 PPR
- **Operating Voltage :** 5V, 4.75 ~ 30V, 8 ~ 30V DC
- Available in **Shaft diameter :** 6mm, 8mm, 10mm
  Hollow Shaft diameter : 8mm, 10mm, 12mm, 14mm, 15mm, 20mm, 25mm, 30mm....115mm
- **Output Type :** Open Collector, Push-pull, Line Driver, Programmable Encoder, Communication Encoder, Sin-Cosin Encoder
- Available with different communications CANopen, PROFIBUS, Device Net, SSI, Parallel Interface, EtherCAT
- Linear Encoder, Magnetic Encoder, Heavy duty Encoder, Cable-Pull Encoders Beringless Encoders with 16 ~ 740mm Hollow Shaft diameter

STEPPER MOTOR & DRIVER



2 PHASE & 5 PHASE

- Small driver and motor, yet high torque
- Fast response provides shorter system cycle time for repetitive operations
- Smooth drive is provided even with coarse resolution of one division (full-step) or two (half-step) settings
- Microstepping system
- Driving step angle is 1.8 degree / pulse. The dip switch enables changeover between full-step (1.8 deg) and half-step (0.9 deg) operation LED indication when a heatsink excessivel heats up

INDUSTRIAL CONTROL PANEL

Types of Panel

- Design & Build as per customer requirement
- Automation control panel with system integration of PLC, HMI, VFD, AC Servo
- Instrumentation panel
- Starter Panels DOL / STAR-DELTA / ATS
- Automation Panel for Pressure Boosting Application
- Power distribution panel, PCC, MCC, APFC
- Bus Duct Panel
- Feeder Panel
- Synchronizing Panel
- Design with proper cooling arrangement
- High quality switch gears & automation components
- MS / SS/ ABS plastic enclosure with different industrial IP ratings IP44, IP55, IP65

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