

## DELTA<sup>™</sup> DISTRIBUTED CONTROL SYSTEMS (DCS) AND SAFETY INSTRUMENTED SYSTEMS (SIS)

### I/O ON-DEMAND

Traditional Wiring, Bussed, Wireless, and Electronic Marshalling

### COMMUNICATIONS PROTOCOLS

HART<sup>®</sup>, WIRELESSHART<sup>®</sup>, HART-IP<sup>™</sup>, FOUNDATION<sup>™</sup> FIELDBUS, MODBUS<sup>®</sup> RTU/TCP, PROFIBUS<sup>®</sup>, OPC (DA, UA, HDA, AE), DEVICENET<sup>™</sup>, ETHERNET/IP<sup>™</sup>, AS-INTERFACE<sup>®</sup> AND MORE

### OTHER PERFORMANCE ENHANCEMENT SOLUTIONS

Advanced Process Control, Alarm Management, Cybersecurity, Historians, Mobile Applications, Simulation, Operator Training, Virtualization, and Wireless Solutions

### DELTA<sup>™</sup> DCS

- M-Series Controllers – MD+, MX, and MQ
- S-Series Controllers – SD+, SX, and SQ
- CHARMs I/O Technology – Change characterization of I/O signal type at any time
- Distributed CHARMs I/O – Group small amounts of I/O in the field
- CHARMs I/O Cards – CHARMs IOC, Ethernet IOC, Wireless IOC
- Intrinsically Safe CHARMs available
- ISASecure System Security Assurance (SSA) Level 1 certification capable

### DELTA<sup>™</sup> PK CONTROLLER

- Integrated or Standalone
- Small-scale Applications – Skid units or small unit operations
- Utilize with DCS or SIS
- Embedded Communication Protocols – OPC UA, Modbus<sup>®</sup> TCP, and EtherNet/IP<sup>™</sup>
- Built-in Redundancy
- Configurations remain intact without power
- Sized for 100, 300, 750 or 1500 DSTs

### DELTA<sup>™</sup> SIS

- Integrated or Standalone
- Built-in redundancy
- 1508 Safety Logic Solver (SLS)
- CHARMs Safety Logic Solver (CSLS)
- SZ Safety Controller – Can run both safety and non-safety logic
- LS CHARMs I/O Technology
- Distributed LS CHARMs I/O Technology
- Packages for BMS, ESD, FGS, HIPPS, and AOPS Applications
- Safety Ratings - IEC 61508, ISA 84 & ISA SSA Level 1, NFPA (72, 85, 86, 87), and EN (54-2, 298, 50156)
- Intrinsically Safe LS CHARMs Available



**DELTA<sup>™</sup>**

## PROGRAMMABLE AUTOMATION CONTROL SYSTEMS (PLC / PAC)

### PACSYSTEMS FAMILY OF AUTOMATION CONTROLLERS

#### PLATFORMS

- PACSystems RX3i, RSTi, RSTi-EP
- VersaPoint / VersaSafe
- VersaMax Modular
- VersaMax/IP
- PAC8000

#### SOFTWARE

- PAC Machine Edition
- PAC Productivity Suite
- PAC Change Management
- PAC Security Center

#### FEATURES

- Modular, high-speed performance
- Scalable, rugged, high availability
- PROFINET, PROFIBUS DP, Modbus RTU/TCP, Ethernet Global Data (EGD), Control Memory Exchange (CMX)



## PANEL / CABINET DESIGN & FABRICATION

- Small junction boxes, panels and backplanes, major field enclosures
- 7,500 sq. ft. facility
- NEMA 12 & NEMA 4X enclosures
- UL508A and UL698A Certified
- In-House Factory Acceptance Testing
- Over 70 years combined experience
- Standardized panel and cabinet packages
- Functional, "finger safe" designs
- Brand-friendly



## ADDITIONAL CUSTOMER SOLUTIONS

### DIGITAL TRANSFORMATION

A very broad term on the surface, but one that Emerson has spent years planning for and implementing into their product and software solutions. For customers experiencing a retiring workforce, equipment end-of-life, infrastructure obsolescence, and the desire to optimize process and production, Emerson and John H. Carter Company offer an array of Digital Transformation solutions to help get the right information to the right plant personnel at the right time so that the right decision can be made.

- Project & Operational Certainty Consulting
- Wireless Infrastructures
- Industrial Internet of Things (IIOT) Solutions
- Digital Twin (Simulation) Technologies
- Edge Analytics for Asset Health Monitoring
- Safety & Location Technologies
- Automated Operator Rounds
- Digital Turnaround Solutions
- Augmented Reality (AR)

### INDUSTRIAL WIRELESS TECHNOLOGY

If your process plant is like most, it has some wireless instrumentation, but you could quickly add more to improve operations, cut energy use and enhance safety. Industrial wireless networks and sensors can be used in a wide range of process measurements, usually at dramatically lower costs as compared to wired alternatives, with faster installation time and minimal disruption.



## SERVICE & SUPPORT

### PROJECT SERVICES

- Control Systems Configuration
- HMI Graphic Development Services
- Factory Acceptance Testing (FAT)
- System Inspection
- System Commissioning
- Process Startup

### CONSULTING SERVICES

- Project Management Services
- Advanced Operator Graphics Consulting
- Advanced Control Consulting
- Safety System SRS Development and SIL Validation Services
- Long-Term, On-Site Resident Engineering Services
- Industrial Information Technology Consulting Services (IIoT, Virtualization, Cybersecurity, etc.)

### LIFECYCLE MAINTENANCE SERVICES

- Emerson Guardian<sup>™</sup> Support
- Emerson Extended Hardware Warranty
- Emerson Factory Certified Service Provider
- Education, Seminars & Training
- Lifecycle Maintenance Service Agreements
- Preventive Maintenance
- Antivirus Protection & Cybersecurity Implementation
- Software Upgrades
- Emergency, On-Demand, Break/Fix Services
- System Audits and Consulting

**24/7 SERVICE**

**225-751-3788**

**JOHNHCARTER.COM**

## PROCESS SYSTEMS AND SOLUTIONS (PSS) LOCATIONS

Baton Rouge, LA	Sulphur, LA	Mobile, AL	Metairie, LA	Lafayette, LA
Process Solutions Groups & Engineering Center 14141 Airline Hwy Building 3, Suite N Baton Rouge, LA 70817 225-751-3788	Sales / Service Office 650 East Highway 108 Sulphur, LA 70665 337-583-8420	Sales / Service Office 2203 Perimeter Rd. Ste 300 Mobile, AL 36615 251-653-9898	Sales / Service Office 2728 N. Arnoult Road Metairie, LA 504-887-8550	Sales / Service Office 401 Wall Street Lafayette, LA 70506 337-233-8331

## OTHER LOCATIONS

BATON ROUGE	METAIRIE
GEISMAR	MONROE
LAFAYETTE	SHREVEPORT
LAKE CHARLES	



## RELATED SOLUTIONS

Asset Management	Measurement Solutions
ControlWorx: Service and Support Solutions	Mechanical Reliability Solutions
Educational Services	Pressure Management Solutions
EngineWorx: Engine & Compressor Solutions	Regulators
Fisher Control Valves and Flow Solutions	Valves & Automation
Instrumentation	Water and Wastewater Solutions

**CONTROLWORX**  
A John H. Carter Company