

DATASHEET

CCE Standard LACT

Preloaded Software Configurable Control Panels

Rapid delivery of turn-key LACT Control Panel Preloaded with control programming flexible for oil and water applications in one design. Field configurable through faceplates requiring no laptop to commission.

Features

- 4-customer Oil and Water capability
- SI Independent logic and faceplates based on Rockwell PlantPAx DCS
- Fully preprogrammed and configurable from the HMI
 - Oil and water trains, individually selectable by customer
 - Selectable peripheral devices (producer comms, tank valves, salt water cooler, etc.)
- A quick-connect system for all low voltage wiring
- Fully documented with controls narratives, cause and effect
- Measurement and system reporting (data mapping) for control room applications
- Automatic sampling rates provide appropriate sample pot levels at month end

Advantages

Fabrication

- Modular assembly allows for oil/water mechanical configuration
- Configuration and HMI-only setup allow for any Fabricator to integrate
- DCS programming approach allows technicians to test devices without a laptop
- Quick-connect system allows for easy disassembly for shipping

Commissioning

- Using the quick-disconnect cabling allows for simple cable tray installation and minimal wiring efforts.
- Laptop free setup and testing allows for reduced Operator and Technician orientation and training

Operations and Maintenance

- Time is synchronized to the flow computer from SCADA eliminating site inconsistencies
- Local trending per device / loop
- Troubleshooting the system does not require laptops, software or programming as the system is fully documented and additionally supported by Rockwell TechConnect
- Standard hardware configuration allows for software updates

Return on Investment

Flow Sooner – Shorten lead times, eliminate field programming, and reducing commissioning time saving hundreds of man hours and creating revenue faster.

Troubleshoot Better – Consistent design for all LACTs, indicating breakers, and consistent drawings to locate issues easily and fix quickly with consistent parts

Reduce Spares – Consistent design makes for rip and replace without moving wires or changing tags

Turnkey Delivery

- Control Narratives
- Cause and Effect
- Panel Design
- Documentation
 - Layout
 - Materials
 - Electrical
 - IO Loops
 - Wire Tags
- Integrated FAT
 - Loop tests
 - Software Tests
- Serialization
- Panel Fabrication
- Software Pre-uploaded





CCE No Laptop Policy –

No programming needed on-site. Configurable operation by faceplates, while staying locked to prevent changing the logic without correct credentials. Keep operators from programming out alarms and provides user based security.

Standard Solution –

- Support up to 2 Meter Runs
- Oil and Water Applications
- 72x36x18 Floor Mounted NEMA 4 Panel
- PanelView Interface
- Exterior Features
 - o ESD Button
 - o Pushbutton Reset
 - o 20 A GFCI 120 VAC Outlet
 - o Communication Ports
 - o Foldable Table
- Allen Bradley 1796 CompactLogix PLC
- SpiritIT Flow Computer
- Segregated 120VAC Power Distribution
- Segregated 24VDC Power Distribution with UPS
- Indicating Breaker Supplementary Protectors
- 8-port Network Switch
- Motor Relays
- Internal GFCI 120VAC power outlet
- Single Stack terminal blocks
- Open space for wireless communication modules and expansion.

Custom Hardware Needs?

Needing additional hardware to suit your custom application? We can design a custom Snap-On JBox for your one off fields keeping your LACT panel consistent and keeping IT and others out of your control panel.

- Radio and communication
- Power Systems
- External Control Systems
- ESD Relay Panels

Configurable Options –

Customize your panel design to fit your location, application and standards

- UL Listing for 508A or 698A
- Insulation and heating
- Custom markers for wiring, devices and nameplates
- Ferrules
- Spring-cage terminal blocks
- Custom colors for wires, ducts, cabinets, and nameplates
- Fuse or Indicating Supplementary Protectors for power distribution and IO
- Preferred Flow Computers and PLCs
 - o Supporting
- Panel Dimensions

Solutions to Compliment

Ask us today about these other offerings and services to maximize your investment

- System Audits
- Control Narratives and Cause and Effect Documentation
- Field Commissioning Services
- Custom Panel Fabrication
- Electrical Engineering
- LACT Skid Solutions
- 24 Hour Remote Support Services

Convergence Controls and Engineering delivers solutions that are innovative and cost-effective for our clients. Leveraging cutting-edge tools and methodologies we combine lifecycle service with holistic and forward-thinking strategies to ensure high-quality deliverables that increase our client's profitability and ensure maximum up-time of their systems. Convergence succeeds through empowering our people to build lasting relationships, and to always do what is right for the client.