

Lease Automated Custody Transfer System

# Mobile Truck LACT

Improves Accuracy & Safety in Production Chain



## Benefits:

- **Significant Savings in Load Accuracy**
  - Payback Period: Three months (based on: \$60/BBL; 220 BBL haul; 0.5% error in tank gauging measurement; eight hauls per day)
- **Driver Safety**
  - Eliminates driver tank gauging
  - Eliminates exposure to dangerous gas vapors
  - Eliminates climbing tanks
  - 40% reduction in loading time
- Approved by the North Dakota Industrial Commission (NDIC)
- Optimizes load capacity to DOT Regulations

## Mobile Truck LACT Components / Features:

- 3" Micro Motion Elite Meter CMF300M
  - Flow Accuracy  $\pm 0.10\%$  of rate
  - Density  $\pm 0.0005$  g/cc
  - Temperature rated for -40°F to 140°F
- Flow Computer ROC809L/FB3000
  - API-compliant flow computer
  - History and audit trail
  - Alarm & event log
  - Temperature rated for -40°F to 140°F
- Custom LACT Program utilizing the Emerson Tank Manager & Liquids Program
  - History of last 500 hauls
  - Ability to record seal numbers
  - API custody transfer liquid measurement

- Seven-inch full-color graphical interface touchscreen
  - Temperature rated for -22°F to 140°F
  - Direct entry of alphanumeric data on display with drop-downs for key elements – reduces data entry errors
  - Secure display: login required for haul capability and access to client information
  - Single-button access to last 3000 hauls, downloadable to USB memory stick
- UL 508A-listed cabinet
  - BLM-compliant audible and visual alarms for API gravity acceptable range and detection of air entrainment
  - Proving pulse connection
- Rosemount temperature transmitter/RTD/Thermowell: API-compliant; accuracy  $\pm 0.5$  °F (API Ch 7, Sect 2)
- Rosemount pressure transmitter: accuracy  $\pm 0.1$  PSI
- Sampler system with probe: 10cc sample acquired every three barrels
- Turck C1D2 cables: quick-connect/disconnect wiring to all devices
- Static mixer, strainer, air eliminator
- Meter back-pressure component: three-inch orifice plate
- Proving block and bleed valves

Contact Novaspect for additional information:

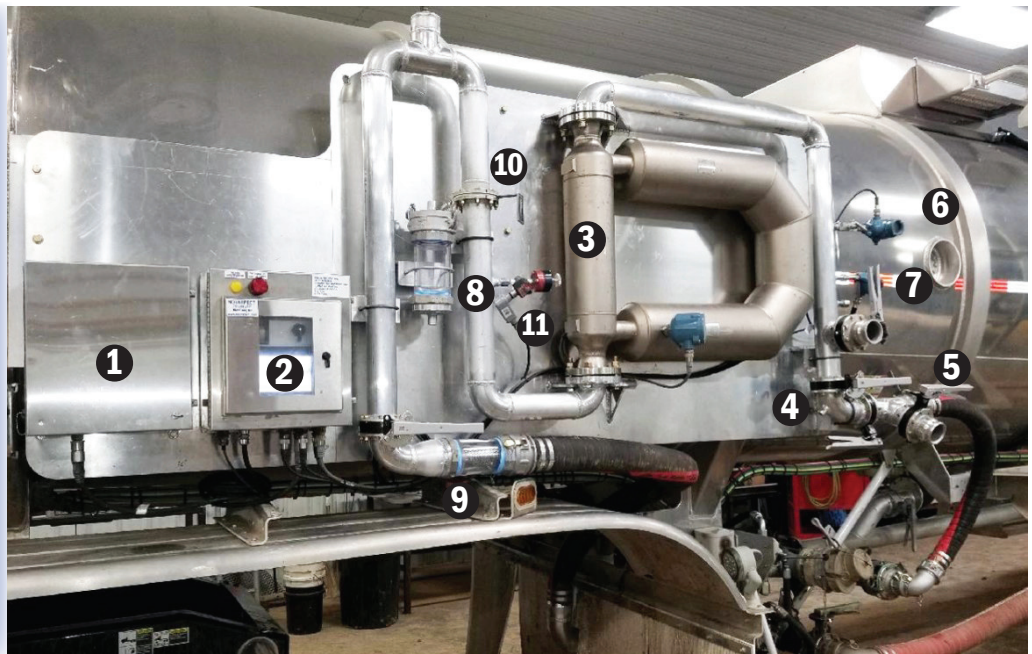
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## COMPONENTS:

1. Flow Computer Cabinet
2. Display (HMI) Cabinet:
  - warning lights
  - cable connections to sampler
  - proving connection
3. Micro Motion Coriolis Flow Meter (flow & density)
4. Block & Bleed Proving Connection
5. Backpressure Regulator (Orifice Plate)
6. Pressure Transmitter
7. Temperature Transmitter
8. Sample Solenoid & Diaphragm
9. Air Eliminator / Strainer
10. Static Mixing Plate
11. Sample Pot





### Other valuable advantages of the Emerson automated system:

- Protects against overfill. System can monitor gross volume and alarms at maximum truck capacity or shut down pump.
- Eliminates tank strapping costs.
- Optimizes load capacity to DOT regulations, thus providing cost savings on truck operation.
- Simultaneous on-line measurement of gross volume, net volume, temperature & density.
- Reduces load times.
- Rugged instrumentation .
- Includes system historian.
- Plug-and-play configuration with cabling.
- Easy-touch screen user interface.

As an option, Novaspect can also assist with integration into mobile systems, SCADA, or offer direct ticket printing– plus local service and support in North Dakota. **Contact Novaspect for additional information.**

