

# Reduce LACT Cost – Coriolis Measurement with Integral Temperature Averager

## RESULTS

- Cost savings of approximately \$4,000 per installation
- API MPMS compliant average temperature calculations
- Smaller overall footprint for Coriolis-based LACT skid



ELITE Coriolis flow meters are designed to deliver accurate, repeatable flow measurement for LACT applications.

## APPLICATION

Lease Automatic Custody Transfer (LACT) units are used to measure the Net Standard Volume (NSV) of crude oil produced at a production lease. One input to NSV calculations is a temperature flow-weighted average (TWA) value over the contract run period.

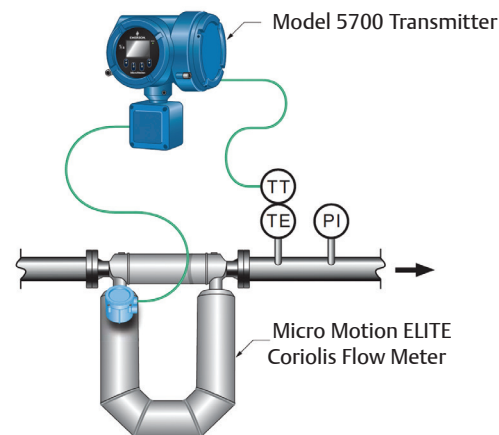
## CHALLENGE

Historically, LACT units used mechanical positive displacement flow meters with external temperature averagers to record TWA for NSV calculations. However, mechanical positive displacement flow meters require periodic maintenance and need additional external temperature averagers to determine TWA. This translates to additional customer costs.

## SOLUTION

The customer chose to install the Micro Motion™ ELITE™ Coriolis flow meters and the 2700/5700 Transmitters with an API Referral Software option. An external flowing temperature transmitter provides an input to the flow transmitter via a HART process variable or analog signal. TWA is calculated via the software option and can be reset via the transmitter's display or Modbus communications. LACT measurement quality and availability was increased due to the maintenance free Coriolis flow meter technology. The LACT skid footprint was also reduced due to fewer components.

These investments resulted in reduced costs to install and operate a Coriolis-based LACT, saving the customer approximately \$4,000 per unit.



Lease Automatic Custody Transfer (LACT) unit

Micro Motion Inc. USA  
Worldwide Headquarters  
7070 Winchester Circle  
Boulder, Colorado USA 80301  
T +1 303-527-5200  
T +1 800-522-6277  
F +1 303-530-8459  
[www.Emerson.com](http://www.Emerson.com)

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For more information:  
[www.Emerson.com/MicroMotion](http://www.Emerson.com/MicroMotion)

  
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