

# ROC800L Liquid Flow Measurement Computer

## Simplified liquids measurement and custody transfer proving



**The ROC800L continues to evolve to meet the demands of the growing liquids market. New enhancements improve productivity and reduce cost with better insight to their operation.**

The ROC800L's new capabilities make this flow computer the premiere choice for both oil and natural gas measurement. These new capabilities allow it to accept an analysis of the flow stream, calculate mass, volume, and energy of each component in the stream to increase measurement accuracy. These enhancements improve transaction and periodic history, delivering flow reports in accordance with the Flow-Cal .CFX format will improve production and reduce cost with better insight to the user's operation.

For accurate measurement and enhanced data reporting, the ROC800L has been improved to:

- Generate in the ROC800L a report in the CFX format for external validation of the ROC800L calculations for volume correction
- Report for each component of a light hydrocarbon stream (methane, ethane butane, etc.) and make mass to volume conversions in accordance with API 14.4 and API 14.7 (GPA8182 and GPA8173). This will allow an accurate determination of the volume of a mixed stream based on a compositional analysis of the liquid. This can be based on either a direct mass measurement from a Coriolis meter (along with flowing density) or a mass calculated from a turbine meter and a meter densitometer
- Extend the history recording capability to include a full periodic history and an extended transaction history

## Design

The ROC800L covers a wide variety of applications for liquid handling across a full range of liquid hydrocarbons, including crude oil, refined products, special application products, lubricating oils, and light hydrocarbons. The ROC800L leverages the easy-to-use architecture of the ROC family, offering fill-in-the blank configuration that brings users online faster.

## Liquids Measurement

The ROC800L model delivers an exceptional level of functionality along with a new software application capable of computing liquid flow for up to six meter runs for hydrocarbon liquids found in Oil production specifically crude oil and natural gas liquids (NGL).

## Custody Transfer Proving

The ROC800L can interface with a large volume, bidirectional prover, a small volume prover, or a master meter to measure the meter factor and correct for the accuracy of a particular installation. Double chronometry is used to assure the necessary precision for proving and pulse integrity in accordance with API Chapter 5.5.

For more information and access to our full ROC800L brochure, please visit our website at [www.EmersonProcess.com/Remote](http://www.EmersonProcess.com/Remote)



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