

# Saraburi Product Terminal Project

## System Solutions

**Customer:** Conoco  
**Project:** Saraburi Product Terminal  
**Location:** Saraburi, Thailand  
**Product:** Diesel and Gasoline

**High accuracy measurement using cost effective, two-wire communication from field instrumentation to control room console**



## Saraburi

### [Saraburi Project Flier](#)

The Conoco Saraburi system was designed to meter regular and premium unleaded gasoline and high speed diesel through dedicated meter runs to custody transfer standards at flow rates up to 1,720 m<sup>3</sup>/hr. The systems consists of three single Smith 10" Sentry Turbine meters configured in a 1+2 arrangement, where one meter is dedicated to a single product operating on duty at 100% system capacity. Valve manifolding allows the facility to utilize the other two meter as standby.

To maintain consistent, high accuracy measurement, a Smith 30" bidirectional sphere prover provides for periodic on-line meter calibration. Piping manifolds and valving connect the meter skid and prover to provide recirculation and bypass capabilities during non-batching operations. Gantry cranes are installed integral to the skids for prover sphere handling and to aid in routine maintenance.

Custody transfer computations and report generation are performed by the Smith SyberTrol flow computer which links via Modbus communication interface to Conoco's Data Acquisition System. Mounting the SyberTrol flow computer in the field on the meter skid provided significant cost savings by utilizing its two wire, high speed, local area network communication to connect field devices back to the control console located in the control room.