



## WinTran™ OnLine™

WinTran™ OnLine™ is our Real Time Transient Simulator that operates completely within WinTran™.

WinTran™ OnLine™ synchronizes transient models continuously with the real pipeline operation. The availability of either the current state or any previous archived state allows a user to conduct more realistic predictive studies, launch automatic look-ahead, have up to the minute accurately tuned models, or analyze past operating scenarios.

WinTran™ OnLine™ can also be coupled with a closed-loop control logic to maximize many operational objectives. While this Module is executing, the user can graphically view the results from one of the many built-in graphic routines or from the built-in Display Text Window.

The **Online Data Interface™ (ODI)** serves as a link between WinTran™ OnLine™ and Real Time SCADA Data. The ODI supports user definable data pre-processing and operational rules. It is used to synchronize transient models with Real Time SCADA Data and make predictive, look-ahead and Real Time Simulations for Operational and Capacity Studies.

As optional modules, it contains a **Leak Detection Module**, a **Detailed Station Calculation and Fuel Optimization Module™**, an **Expert System Module**, and a **Training Simulator**.

### WinTran™ OnLine™ Features:

- ◆ Real Time Operations;
- ◆ Automatic Look-Ahead Analysis;
- ◆ Supports Processing of Raw SCADA Data;
- ◆ Generation of Model Control Data;
- ◆ Load Profiling;
- ◆ Gas Quality Profiling;
- ◆ Provides Detailed Station Calculations & Fuel Optimization;
- ◆ Built In Automatic Tuning;
- ◆ Provides Long Term Reliability;
- ◆ Allows Future Expansion of Software;
- ◆ Allows Future Expansion of Hardware;
- ◆ Is Based on Open System Standards.
- ◆ Built In Automatic Filtering of SCADA Data.

### WinTran™ OnLine™ Applications:

- ◆ Real Time Pipeline Modeling;
- ◆ Accurate and Timely Predictive or Look-Ahead Analysis;
- ◆ Daily Operating Planning;
- ◆ Short Term Capacity Analysis;
- ◆ Incremental Cost Analysis;
- ◆ Accurate Line Pack and State Information on a Real Time basis;
- ◆ Profile of Gas Composition along the Pipeline;
- ◆ Accurate Pipeline Volume and Energy Balance Information on a Real Time basis;
- ◆ Efficient day-to-day Operations;
- ◆ Efficient Expansion Design of Network Systems;
- ◆ Perform survival time analysis;
- ◆ Minimize Compressor Fuel Usage;
- ◆ Blow-Downs Calculations;
- ◆ Gas Lost Calculations;
- ◆ Impact of Equipment Outages;
- ◆ Leak or Rupture Detection in a short time with no false alarms;
- ◆ Training Tool for Dispatchers and Engineers.