Applications

- Plant heat/mass/composition balances
- Process monitoring
- Equipment performance analysis
- Instrument maintenance
- Plant instrument design
- Yield accounting
- Modeling/optimization data source
- Economic analysis

DATACON

QUICK OVERVIEW

SimSci-Esscor™ DATACON® turns real-time process data into consistent and reliable business information. It uses statistically sound techniques to reconcile flow, temperature, and composition measurements to satisfy material and energy balances around each unit in a process plant. DATACON also detects gross errors in measurements, pinpoints the error locations, and confirms the presence or absence of measurement redundancy. DATACON now offers full and automated linkage to data historians, plant databases, and directly to distributed control systems (DCS).

BENEFITS

- Typical plant balance reduced from 2-3% to 0.1%.
- Balanced plant data for performance monitoring, management reporting, and technical applications.
- Targeted instrument maintenance program based on reports from DATACON
- Reduced instrument maintenance costs
- Reduced instrument capital costs
- Improved plant yields
- Reduced operating costs due to lower processing losses
FEATURES

DATACON offers a variety of means of linking to plant and laboratory data. These include direct links to data historians such as Invensys’ AIM*AT and OSI’s PI, together with access to ODBC or @aGlance compliant DCS, databases or historian servers. In addition, plant data can be supplied as individual tags or imported from a free format ASCII file. This provides full flexibility to automate the flow of data into and out of DATACON to plant databases. Typical uses include the accessing of raw tag data from a data historian and then returning reconciled values tag data. This allows application of historian reporting capabilities using balanced and consistent data directly.

Additional features of DATACON include:

- Comprehensive data reconciliation for temperatures, flows and compositions
- Gross error detection
- Industry standard GUI
- Full model configuration for individual units or full plants
- Integrated physical properties

Plant engineers or operating personnel are able to configure DATACON models and complete links to plant data. Invensys Process Systems also offer project-based services for complete solutions on a variety of plant types.

INDUSTRIES

- Oil/Gas Production
- Gas Processing
- Refining
- Petrochemicals
- Chemicals
- Pulp/Paper
- Pharmaceuticals
- Metals/Minerals Processing

PROCESS ENGINEERING SUITE

PRO/II® General-purpose process flow-sheeting and optimization.
HEXTRAN® Comprehensive heat-transfer simulation and pinch analysis.
DATACON™ Complete plant gross error detection and data reconciliation.
INPLANT™ Multiphase, fluid flow simulation for plant piping networks.
VISUAL FLOW™ Design and modeling of safety systems and pressure relief networks.