



LinePack

For an Accurate Accounting of Total System/Pipeline Value



LinePack performs complex mathematical equations to determine energy contained in specific segments of the pipeline. It works to deliver accurate updates to gas control operations of exactly what is contained in the system. LinePack is a plugin for Schneider Electric's EcoStruxure Geo SCADA Expert.

To manage your pipeline effectively, you depend on your calculations to provide accurate data regarding the system state. AUTOSOL's LinePack add-on service, designed to work with Schneider Electric's EcoStruxure Geo SCADA Expert, performs automated energy calculations for all line segments in your system.

The LinePack configuration is incredibly flexible, allowing users to input either a known empty pipe volume, or specific dimensions with user-defined upstream and downstream values derived from the SCADA systems' real-time numbers. The results of the segment calculations can be added together to create a total system/pipeline value and are performed at a time interval specified by the user.

System Requirements

LinePack requires Schneider Electric's EcoStruxure Geo SCADA Expert.

LinePack supports the following operating systems in both 32 and 64-bit:

- **Microsoft Windows:** 7, 8, 8.1, and 10
- **Microsoft Windows Server:** 2008, 2008R2, 2012, 2012R2, 2016 and 2019
- **.NET version 4.0 is required**

Specifications are subject to change without notice.

Key Features

- Supports **AGA Gross Method 1, Gross Method 2, Detail and manually-entered** supercompressibility factor (Fpv).
- Supports **multiple averaging methods** for line pressure, atmospheric pressure, and temperature.
- Can use existing SCADA data for **upstream or downstream values**, or constant values if necessary.
- Volume Calculation Multiplier allows for **unit modification of the output numbers**.
- Existing SCADA data can be used for **gas composition information** as well as constant values if necessary.
- Calculation frequency is **user selectable**, ranging from every second to once a day.
- Segment calculations can be **independently disabled**.
- Configuration is stored as part of the EcoStruxure Geo SCADA Expert database, allowing **easy backup and complete redundancy**.
- Object-oriented configuration allows the **re-use of common properties** among several segments, such as gas quality.
- Templated objects can be **rapidly configured within EcoStruxure Geo SCADA Expert** and viewed in a tabular form.



www.autosoln.com | info@autosoln.com

USA: 281.286.6017 | Canada: 587.315.6128

The innovative technological capabilities of AUTOSOL® products are protected by US Patents 6,628,992; 6,950,851; 6,961,753; 7,073,182; 7,225,248; 7,587,481; 7,646,298; 7,673,337; 7,673,8; 7,747,710; 8,316,232; 8,364,950; 8,694,770; 8,898,481; 8,935,523; 8,966,117; 9,100,318; 9,306,946 and patents pending.

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