



R.L. LAUGHLIN & CO., INC

The Gas Grabber
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Electronic Chart Integration

IN THESE TOUGH ECONOMIC TIMES, LET US INSURE YOUR MCF READINGS ARE ACCURATE!

R.L. Laughlin & Co., Inc., with corporate offices in Charleston, WV. Provides state-of-the-art Electronic Chart Integration in addition to Field Services, Meter Run Fabrication and testing of rotary, turbine and diaphragm Gas meters with a new Dresser Roots Model 5 2M/10M Proving System.

R. L. Laughlin & Co., Inc. is a 39-year old corporation dedicated to providing Gas Measurement and Field Services throughout WV-VA-PA-NY- MI-OH-TN-IL and KY.
Here is what we have to offer our clients:

LEADER IN GAS MEASUREMENT TECHNOLOGY

We are the only Gas Measurement Services firm in the multi-state area that utilizes state-of-the-art computer technology along with a full-time computer programming staff to assist our clients with their data & information requirements.

ELECTRONIC CHART INTEGRATION

New state-of-the-art technology enables ELECTRONIC CHART INTEGRATION. This translates into extremely accurate measurement, repeatable and quicker turn around of volumetric data. 7 Day Turnaround

WEB SITE PORTAL FOR CLIENTS

We offer our clients a secure web "portal" to view their meter and measurement information. We also provide chart images so the actual chart (both front & back) can be seen over the Internet. We have a Line Loss Report on our web site along with other management reports to assist your field offices with the management of their systems.

CUSTOMIZED ELECTRONIC FILE FORMATS & REPORTS

Our full-time computer programming staff can tailor file formats and reports to any specification.

REPORTS AVAILABLE IN ADOBE READER FORMAT (.PDF)

We use the popular (and free!) Adobe Acrobat Reader format for our reports, statements and labels.

CHARTS CAN BE VIEWED OVER THE INTERNET

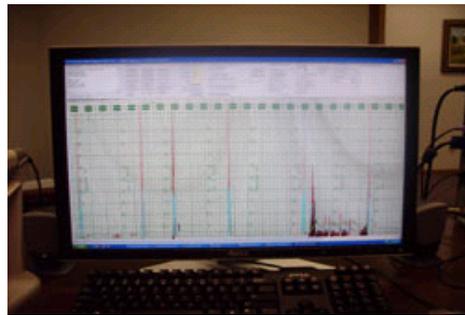
Charts are document imaged so the front & back of each chart can be seen via the Internet. You can also zoom (magnify) and print the images.

ELECTRONIC METER POLLING & COLLECTION OF DATA

We offer Electronic Meter Polling and collection of that data into our database. We also offer field services for installation, repair and support of Electronic Meters.

ELECTRONIC METER DATA CAN BE VIEWED OVER THE INTERNET

The EFM information can be viewed over the Internet. We also can depict the EFM data on a chart showing a visual chart picture of an EFM volume.



Visit our web site at www.rllco.com or call our offices for more information.

“We are leading the way with TECHNOLOGY”

Electronic Chart Integration Explained

Today’s technology enables many of us to perform routine tasks more quickly. We can get our emails on a hand-held device without being in the office, we can email photographs and documents and we can take pictures with our cell phones. We keep getting closer and closer to a “paperless” office environment. We can poll remote electronic flow meters and drive down the road and collect data. Computers can talk to us and vice versa. And, applying some of the above-mentioned techniques, R.L. Laughlin & Co., Inc. has developed a computer program to ELECTRONICALLY INTEGRATE CHART IMAGES. Using document imaging techniques, we “take photographs” of charts and store the images at a very high-resolution rate. A computer program then analyzes the “picture” to identify the differential, pressure and temperature lines to produce the data needed to calculate MCF’s of gas. In other words, the program performs the same process that an operator and an integration machine would but electronically! For those of you interested in the numbers, the program analyzes, identifies and stores data on 2.2 million individual pixels for each chart. It takes 2,500 “slices” of each chart image. A manual integration machine takes 1,000 “slices” of each chart. This data gets aggregated to provide the necessary information needed for the MCF calculation. Throughout the development life (2 years) of this computer program we call “2500 H-L Electronic Integrator” many charts have been analyzed and compared against the manual integration method. Benchmark charts have been identified and used to check the “calibration” of the chart images daily. This is a quality control step to ensure the integrity of the program and the results. Hundreds of man-hours have been spent to provide the most accurate and repeatable results using the 2500 H-L Electronic Integrator program. Our goals are to provide our clients with:

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- 1) Accurate Results
- 2) Repeatable Results
- 3) Quick Turn Around
- 4) And Quality Customer Support!

An additional benefit of document imaging charts is they can be viewed via Laughlin’s web site. With proper credentials (User ID and Password) meter, volumetric data and chart images can be seen over the Web. R.L. Laughlin & Co., Inc. has long been recognized for their Honesty, Quality and Integrity. By adding this new technology to our service offerings, we have become the TECHNOLOGY LEADER in our industry! For more information, contact Gary Sergent at 304-776-7740 or garys@rllco.com