

Are Chart Recorders Putting Your Operations at Risk?

Measurement Challenges



- Lower accuracy, off-chart readings, inking problems and other malfunctions result in lost and unaccounted for gas
- Uncertainty for DP, pressure and temperature at ± 1 to $\pm 2\%$ (typical)

Impact to Safety & Productivity



- Gathering and replacing charts weekly requires significant “windshield time”
- Chart recorders provide limited capabilities beyond pressure and temperature measurement

Late, Inaccurate Reporting



- Integrating charts introduces significant uncertainty and is time consuming and costly
- Time interval between gas delivery and billing is increased
- Potential for human error increases during handling and processing

Introducing Emerson's FB1100 Single-Run Flow Computer

Designed to Improve Accuracy, Eliminate Costs and Enhance Safety

Emerson's cost-effective, low-power FB1100 Explosion-Proof Flow Computer is the ideal alternative to traditional chart recorders for measuring and monitoring natural gas flow. This compact, single-run model is designed to operate for up to one year without external power and offers improved accuracy to minimize lost and unaccounted for gas. In addition, the firmware supports global calculations for a variety of DP metering devices, including orifice plates, conditioning orifice plates, cones, Venturis and nozzles. Start improving measurement accuracy while saving time and money with our next-generation, single-run FB1100 Flow Computer.



Safe, Rapid Access to Data.

Use FBxWifi to view process values, collect logs and more while avoiding the hazardous area.

FB1100 Flow Computer Advantages over Circular Chart Recorders

- **No chart integration.** Gas flow is calculated within the unit in real time.
- **No off-chart readings.** All gas is measured and recorded.
- **No messy ink pens.** Data is recorded electronically.
- **Better reliability.** No moving parts ensure less downtime and improved accuracy.
- **No need for frequent site visits to retrieve data.** The FB1100 model has capacity to store hourly logs for 62 days, daily logs for 12 months and more.
- **No need to enter the hazardous area to connect.** Configure, operate and collect data outside the hazardous area using our optional FBxWifi feature.
- **Easier installation.** The unit's lightweight and compact size means it can be mounted directly to the meter run.
- **Quick and easy startup.** The Initial Setup Wizard within FBxConnect software provides expert guidance to simplify configuration and limit errors.
- **Guided workflow wizards.** Common operations such as calibration, verification and plate changes are simplified.
- **Lower maintenance cost.** Chart paper and ink pens are eliminated, and no periodic maintenance is required.

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Flyer: FB1000 as Chart Recorder Replacement | 11-18

