

The FloBoss™ 103.

The Cost-Effective Alternative to Chart Recorders.

The FloBoss™ 103 Flow Manager is a compact, single-run, self-contained flow computer that is a cost-effective replacement for the traditional paper chart recorders used in natural gas flow measurement.



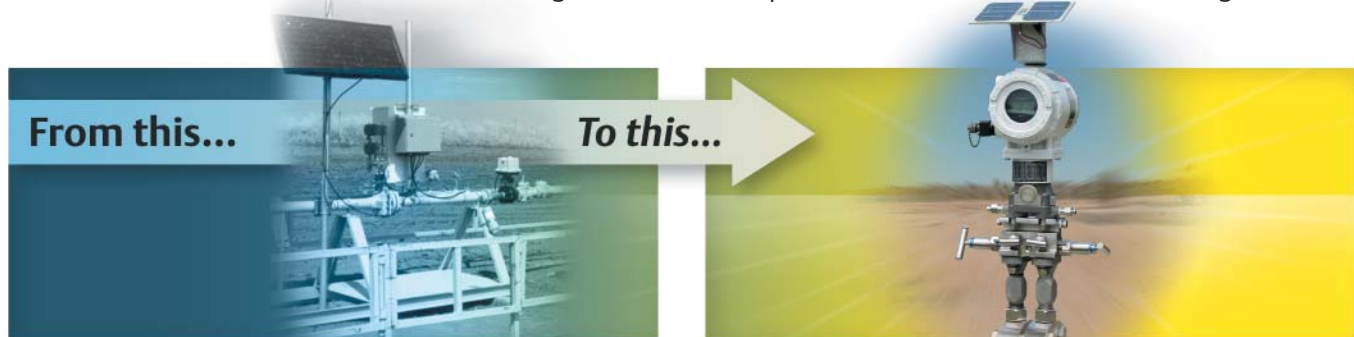
Manually gathering and integrating charts is time consuming, labor intensive, and costly.

Electronic retrieval of gas flow data either locally or remotely is fast, convenient, and inexpensive.



Lower accuracy, off-chart readings, inking problems, and malfunctions mean more lost and unaccounted gas.

The FloBoss 103 delivers higher accuracy and eliminates chart problems for less lost and unaccounted gas.



Typical flow computer installations are a maze of solar panels, battery boxes, radios, antennas, wiring, etc.

The FloBoss 103 integrates batteries, communication cards, and sensor into a single, easy to install unit.

Low-Cost Data Management. Gathering and replacing charts requires significant “windshield time,” and integrating charts is costly and increases the time between gas delivery and billing.

The FloBoss 103 gathers gas flow data electronically and provides an extensive audit trail for measured and calculated values, as well as events and alarms. Up to 35 standard history points can be archived on an hourly and daily basis for up to 35 days. An extended history database supports data logging at intervals from 1 to 60 minutes, giving operators added flexibility to meet the requirements of advanced applications.

Better Gas Measurement. Chart recorders suffer from low measurement accuracy, off-scale readings, and inking problems that impact your bottom line.

The FloBoss 103 virtually eliminates the lost and off-chart gas flow measurement problems inherent with chart recorders. The result is less lost and unaccounted gas and more revenue.

Both static and differential pressure are measured to a reference accuracy of ± 0.1 or ± 0.075 percent. Gas flow is calculated for both volume and energy in accordance with the 1992 AGA3 flow and AGA8 super-compressibility equations, and the unit is compliant with API Chapter 21.1.

Easier Installation. Chart recorders are bulky and require pipe or wall mounting. And, many flow computers require separate enclosures for batteries and communication interfaces, thereby adding to installation time and cost.

The FloBoss 103 is compact, so it can be mounted almost anywhere. Extremely low power consumption lets it operate for up to 21 days using its built-in rechargeable batteries with no communications. A 2-Watt or 5-Watt (nominal) solar panel is all that’s required to keep the batteries charged.*

The enclosure is rated Class I, Division 1 without the solar panel and Class I, Division 2 with the solar panel.

* Solar panel and battery requirements may vary depending upon communication method and geographic location.

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FloBoss 103 shown with optional spread-spectrum radio and 5-Watt solar panel.

More Reliable, Less Maintenance. Chart recorders, with their many moving parts, require periodic maintenance, ink or pen replacement, and frequent calibration to ensure their continued accuracy.

The FloBoss 103 is an extremely low maintenance and stable device. Once it’s up and running, only periodic sensor calibration is required. It has no moving parts and is designed to operate reliably for years.

More Upgrade Paths. Chart recorders, as well as typical EFM units, provide few capabilities beyond pressure and temperature measurement.

The FloBoss 103 offers much more, such as PID and logic/sequencing control at no extra cost. Options include six-channels of I/O, RS-232 or dial-up communications, built-in spread-spectrum radio, and MODBUS protocol.

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