

FloBoss™ 407 Flow Manager.

The FloBoss™ 407 Flow Manager is a powerful, microprocessor-based flow computer that is ideal for multiple-run, natural gas metering applications. It incorporates outstanding features such as a high-accuracy multi-variable sensor, built-in keypad, expandable I/O, and versatile application software for outstanding performance.

The FloBoss 407 is approved for hazardous locations and is available with approvals for custody transfer applications.

Easy to Use. FloBoss 407 firmware makes the complex calculations associated with gas flow measurement simple to implement. Both 1985 and 1992 versions of AGA-3 and AGA-7, as well as AGA-8 and NX-19, are built in. Likewise, sophisticated PID loop control and logic sequencing control schemes can be implemented without programming.

The FloBoss 407 can be configured and operated on-site using a notebook computer and user-friendly ROCLINK™ software or with the unit's built-in 44-function keypad. Operation from a number of popular host software packages is supported using pre-engineered software drivers.

Easy to Integrate. The FloBoss 407 offers integrators a choice of native ROC, MODBUS, or custom communication protocols for seamless integration into new or existing automation systems. Polled, report-by-exception, peer-to-peer, and master-slave communication strategies can be implemented.



FloBoss 407 shown with four remote MVS units.

Modular and Expandable. Modular design lets the FloBoss 407 adapt to your changing needs. Up to four sensors can connect to the unit through the same serial interface. One of these can be attached to the FloBoss 407 housing and the other three remote mounted, or all four can be remote mounted. Two built-in analog inputs and up to four single-point modules of any combination of I/O types can be accommodated.

Flow Computer Division

Phone (641) 754-3449 Toll Free (800) 807-0730 (US & Canada only)

FAX (641) 754-3630

Website: www.EmersonProcess.com/flow



FloBoss 407 shown with integral MVS unit.

In addition to standard operator interface and serial ports, a plug-in communication card enables communication to a host, other FloBoss or ROC units, or to specialized equipment. EIA-232, EIA-422/485, radio modem, leased-line modem, or dial-up modem options are available.

Reliable. FloBoss 407 technology is proven in thousands of installations, assuring you of low-downtime and low-maintenance operation year after year. Ruggedness is a requirement for field equipment and the FloBoss 407 meets the challenge with its cast Type 4X enclosure, MIL-SPEC circuit boards, and gold-plated connectors. Surge protection is provided on both built-in and modular I/O, and on communication ports as well.

Exceptional Value. The FloBoss 407 gives you exceptional value in terms of high return on investment, reduced product obsolescence, and flexibility to meet future needs. Contact your Representative for more information.

©2001, 2004 Fisher Controls International, LLC.

FloBoss and ROCLINK are marks of one of the Emerson Process Management companies. All other marks are the property of their respective owners.

This publication is presented for informational purposes only, and while every effort has been made to ensure its accuracy, its content is not to be construed as a warranty or guarantee, expressed or implied, regarding the products described herein or their use or applicability.

ISO 9001:2000



Certificate No. 004372

Specification Summary.

Input/Output

- 2 built-in analog inputs.
- 4 single-point I/O modules can be accommodated, mixed or matched by these types: discrete input and output, analog input and output, pulse input, RTD input, relay output, and HART interface.

Communications

- Ports:** One operator interface port and one EIA-232 port are standard. One additional port is available using a plug-in card of the following types: EIA-232, EIA-422/485, radio modem, leased-line modem, dial-up modem.
- Protocols:** ROC and Modbus are supported.

Functionality

- AGA gas measurement for 4 meter runs.
- PID loop control with override for 4 loops.
- Logic/sequencing control using up to 4 function sequence tables (FSTs).
- Archival of 50 history points.
- Logging of 240 alarms and 240 events.

Compliance

- AGA-3 and AGA-8 (version 1992).
- AGA-3 and AGA-8 or NX-19 (version 1985).
- AGA-7.

Approvals

- Approved by CSA for hazardous locations, Class 1, Division 2, Groups A, B, C, and D. Temperature code T4. Certified to Canadian and U.S. standards.
- Approved by Measurement Canada for custody transfer (custody transfer version only).

Dimensions

18 inches high (with sensor) by 9.3 inches wide by 5.1 inches deep (456 mm by 236 mm by 130 mm).

Operating Conditions

- Input Power:** 11 to 30 volts dc. 0.8 watt typical power consumption, excluding I/O modules and communication cards.
- Temperature:** -40 to 167 degrees F (-40 to 75 degrees C).