The FloBoss™ 107 Flow Manager

FloBoss™

EMERSON™
Process Management

The FloBoss 107 Flow Manager introduces a new technology platform to the FloBoss family of flow computers that raises the bar for modularity, versatility, performance, and ease of use. Whether you need a single or multi-run flow computer or few or many I/O points, the new FloBoss 107 can accommodate your needs. The FloBoss 107 is the ideal measurement solution for many natural gas applications. These include, but are not limited to:

- Custody Transfer
- Wellhead Measurement and Control
- Well Injection Pressure
- Compressor Fuel Gas
- Industrial Gas Usage
- Commercial Gas Usage

The new FloBoss 107 offers you benefits that research has shown flow computer users request. You also get all of the tried and true features of previous FloBoss units such as accurate AGA calculations, data archival, broad communications support, low power consumption, PID loop control, FST control, and operation over extreme temperatures.

API/AGA/ISO Compliant Flow Measurement

The FloBoss 107 maintains API Chapter 21.1 compliant historical archives for measured and calculated values, as well as events and alarms. The firmware has the capability to perform AGA3 orifice flow calculations or AGA7 pulse flow calculations using AGA8 compressibility. It also performs ISO 5167 flow calculations. Other flow or properties calculations can be implemented using user programs. Examples include pure gas, steam, as well as other flow meters such as Annubar, V-cone, and Venturi.

One to Four Meter Runs

The FloBoss 107 features a built-in dual-variable sensor (DVS) port and RTD input for handling a single meter run. For multiple runs, an optional multi-variable sensor (MVS) module supports up to four remote MVS units.

FloBoss 107 Base Unit

Scalable and Configurable I/O

You can add a configurable I/O board to the CPU module and up to three configurable I/O modules to the base FloBoss 107. For even more capacity, add an expansion rack to house a total of sevene additional I/O and/or communication modules.

Local or Host Operation

The FloBoss 107 is configured and operated on-site using our Windows®-based ROCLINK™ 800 Configuration Software. The FloBoss 107 can also be configured and operated from a computer running popular host software packages. Modbus ASCII and RTU slave or host protocols, as well as native ROC protocol, are supported.

More Communication Choices

The FloBoss 107 comes standard with 3 ports: local operator interface, RS-232, and RS-485. Additional communication capability is easily added with Optional modules. This includes both Ethernet and USB.

Built-in Control Capability

The FloBoss 107 can perform PID control on 8 loops using analog or discrete outputs. A wide range of control problems can be solved easily and quickly with outstanding results. It can also perform logic and sequencing control by means of Function Sequence Tables (FSTs).

1. Local operator interface port (RS-232) communicates to a laptop or similar PC device for local configuration and data retrieval.

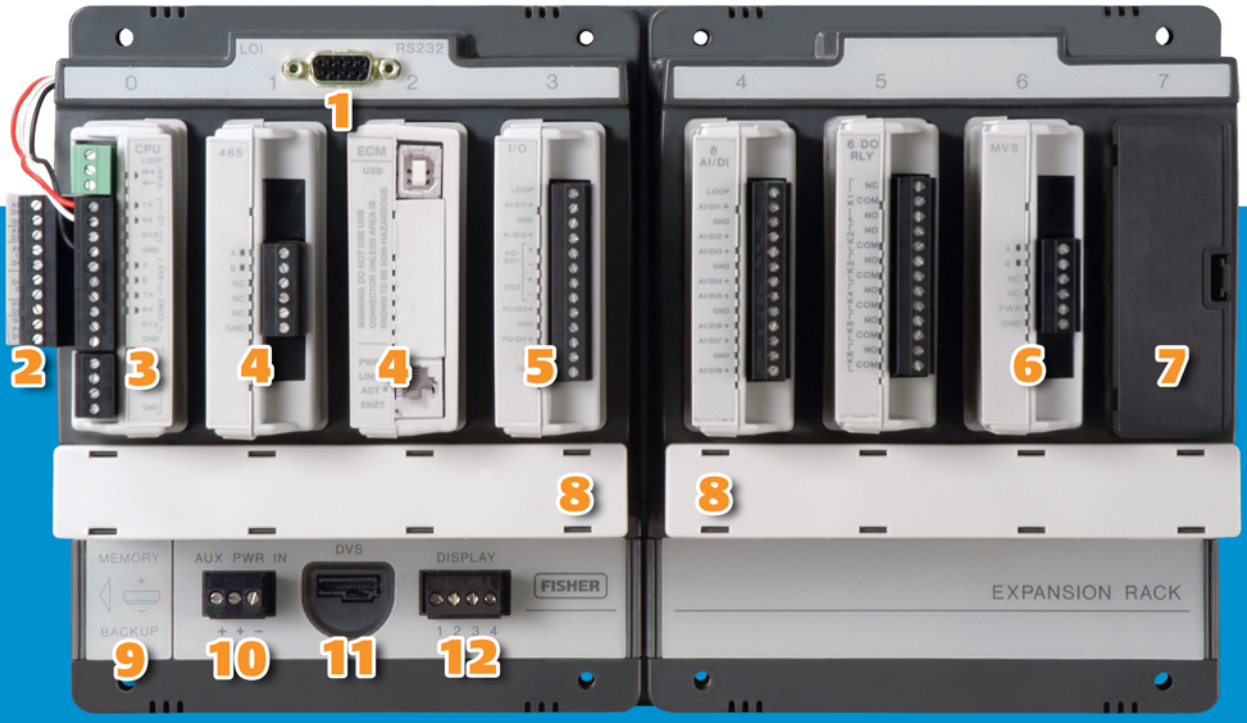
2. I/O card is available for the CPU module. Five of the six I/O points are configurable by type (AI/DI, AI/DI, AO/DO, DI/PI, DI/PI) and the sixth is a DO.

3. CPU module contains the main processing unit, memory, operational firmware, RS-232 port, RS-485 port, and RTD input.

4. Communication modules are available for a second RS-232 port, RS-485 port, as well as options for Ethernet and USB.

5. I/O modules provide six I/O points (same as I/O card). Up to six I/O modules can be plugged into the FloBoss 107. 24Vdc loop power is provided.

6. MVS module supports up to six multi-variable sensor units for differential pressure flow measurement. One MVS module can be used in either slot 4 of the base unit or expansion rack.



Base unit (left) provides the backplane, module slots, ports, and electrical interconnections for the FloBoss 107. Dimensions are 204mm(H) x 153mm(W) x 140mm(D) / 8in(H) x 6in(W) x 5.5in(D). Expansion rack (right) plugs into base unit and provides backplane and slots for additional modules (same dimensions as base unit).

7. Module slots accommodate I/O and communication modules and are protected by removable covers when not used.

8. Covered wiring tray neatly routes field wiring to and from modules.

9. Battery compartment uses lithium battery to backup RAM in the CPU.

10. Input power range for the FloBoss 107 and I/O is 8 to 30 Vdc.

11. DVS port provides a serial data link to a dual variable sensor (DVS) unit.

12. Display port connects a keypad / display unit to the FloBoss 107. Supports ROC and Modbus slave protocols.

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