

Electronic Flow Computers (EFM)



FloBoss™ 103



FloBoss™ 503



FloBoss™ 107E



FloBoss™ 107

Product Capabilities

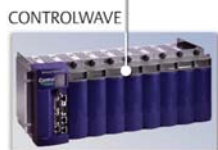


ROC 809

Remote Terminal Units (RTU)



ROC 827



CONTROLWAVE

ELECTRONIC FLOW COMPUTERS (EFM)

FEATURE	FloBoss 103	FloBoss 104	FloBoss 503	FloBoss 504	FloBoss 107E	FloBoss 107
Metering Runs	1	1	1	1	4	4
Turbine Meter Runs	NA	1	NA	1	4	4
Gas Calculations	AGA 3, 8	AGA 7, 8	AGA 3, 7, 8	AGA 7, 8	AGA 3, 7, 8	AGA 3, 7, 8
API Chapter 21.1 Compliant	✓	✓	✓	✓	✓	✓
Class I Div 1	✓	✓	NA	NA	NA	NA
Class I Div 2	✓	✓	✓	✓	✓	✓
Built-in Single-Point I/O	1RTD	1RTD	1RTD, 1DO	1RTD, 1DO	1RTD	1RTD
Maximum Expansion I/O	6	6	24	24	24	42
Maximum HART Devices	NA	NA	NA	NA	20/CARD	20/CARD
Maximum Communication Ports	3	3	2	2	4	4
PID Control Loops	1	1	3	3	8	8
FST Control Algorithms	2	2	2	2	4	4
CSA (NEMA) Type 4 Enclosure	✓	✓	✓	✓	✓	✓
Rosemount Sensor Integral, Remote	Integral	Integral	Integral Remote	Integral	Integral Remote	Integral Remote
Internal Batteries/Radio Mounting	✓	✓	✓	✓	✓	NA
LCD Display (L), LCD with Keypad (K)	L	L	L	L	L, K	L, K

- Fully Compliant AGA Measurement Orifice and Linear (AGA 3, AGA 7)

- Fully API Compliant Audit Trail with 35 Day History Alarms, Events, Hourly/Daily, Minute, Min/Max Data Base, Configurable Sampling Periods

- Liquids Measurement Conforms to API 2450, API MPMS Chapter 4, 5, 11, 12, 21

- PID Control with Dual Mode Override

- Function Sequence Table (FST) Logic Programming

- IEC 61131 Programming (ROC800, FB107, ControlWave)

- Multi-Variable Precision Sensors

- Complete Assortment of Input/Output Modules or Boards

- Low Power Requirements

- Easy to Use ROCLINK Software or Open BSI & TechView for ControlWave

- ROC, Modbus, BSAP Communication Protocols Over Multiple Comm Ports

- Ethernet Communication (ROC800, FB107, ControlWave)

- Robust Design (-40° to +185°F)

REMOTE TERMINAL UNITS (RTU)

FEATURE	ROC 809	ROC 827	CW PAC	CW Micro	CW Express
Gas Metering Runs	12	12	8	8	1
Gas / Liquid Meter Runs (800L)	6 Gas, 6 Liquid 24 Products	6 Gas, 6 Liquid 24 Products	NA	NA	NA
Class I Div 2	✓	✓	✓	✓	✓
Built-in Single-Point I/O	0	0	NA	NA	4DI, 2DO, 2 DODI 4DVI, 3AI, 1AQ, 1RTD
Max Expansion I/O	72*	216	256*	256*	NA
Max HART Devices	20/Card	20/Card	NA	NA	NA
Max Communication Ports	6 + 1 Ethernet	5 + 1 Ethernet	3E, 2 RS232, 2 RS485	3E, 2 RS232, 2 RS485	3S, 1E
PID Loops	16	16	Configurable	Configurable	Configurable
FST Control Algorithms	6	6	6	NA	NA
IEC 61131-3 Programming Languages	✓	✓	✓	✓	✓
CSA (NEMA) Type 4 Enclosure	Available	Available	Available	Available	Available
Rosemount Sensor Integral, Remote	Remote	Remote	Remote	Remote	Remote
LCD Display (L), LCD with Keypad (K)	L, K	L, K	L, K	L	L
Redundant Control	NA	NA	✓	NA	NA

* Depends on I/O type. I/O count is virtually unlimited by networking ROC809 units.

FloBoss

EMERSON
Process Management

ROC

Control
Wave