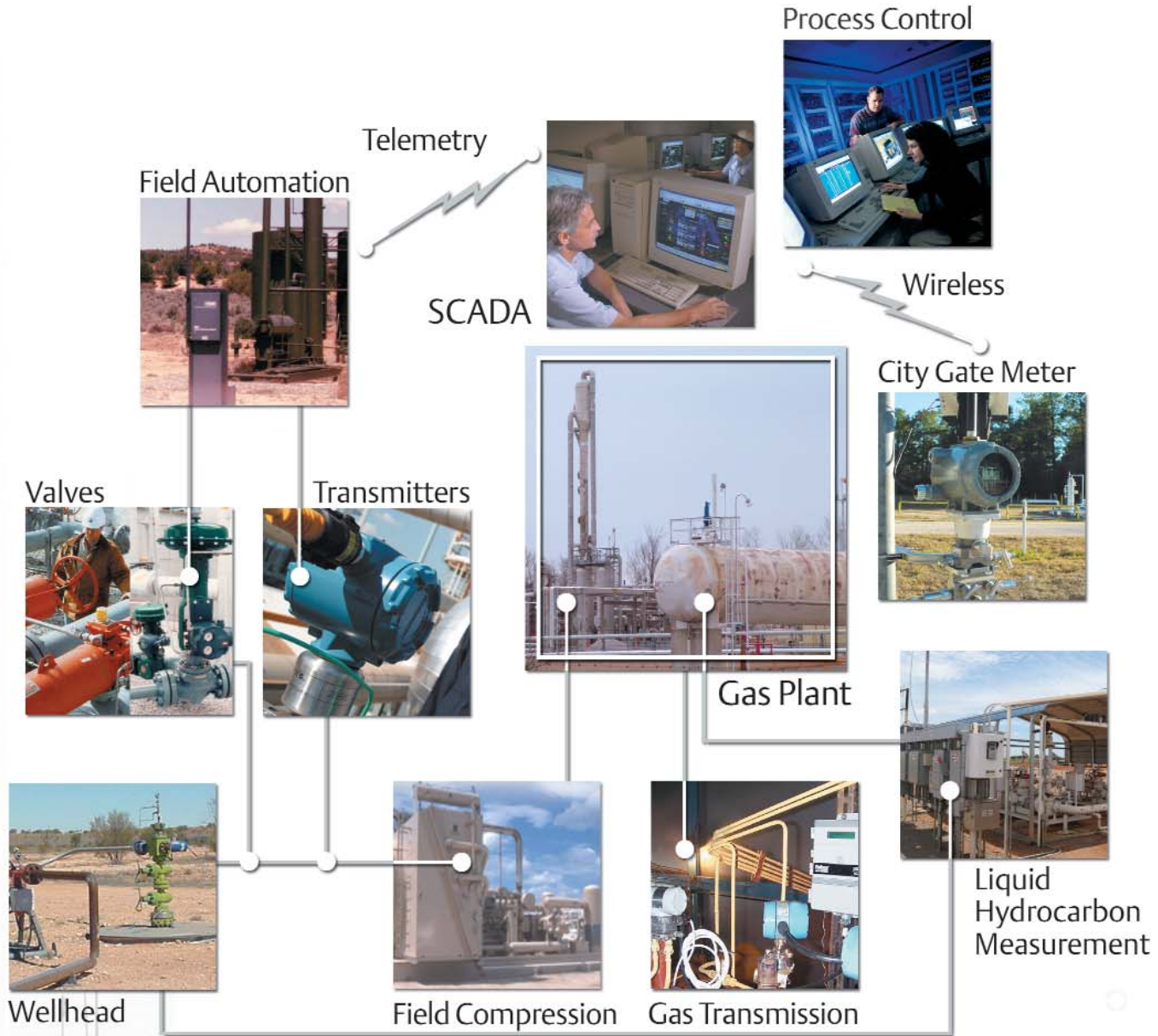


Delivering Solutions From the Wellhead to the Pilot Light

# Remote Automation Solutions



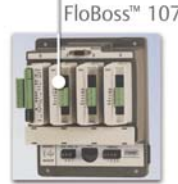
## Product Applications

- Wellhead Automation
- Gas Measurement and Control
- Gas and Liquid Pipeline Measurement and Control
- Production Optimization: Water Flood, Nomination Control, Plunger Lift, Tank Management
- Underground Storage
- Compressor Monitor, Control, and Air/Fuel Ratio
- Process Control
- Alarm and ESD Systems
- SCADA and Host Software

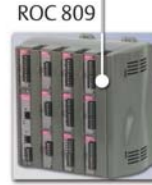
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PROCESS CONTROLS CO, LP

## Electronic Flow Computers (EFM)



Product Capabilities



## Remote Terminal Units (RTU)



### 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, Control-Wave)
- 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, Control-Wave)
- 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 DO/DI, 4DVI, 3A1, 1AO, 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.





One Source



## Products Services

- Flow Computers and Remote Terminal Units
- Communications:  
Radio, Cellular, Satellite, Network
- Remote Power:  
Solar Systems, Grid Chargers
- Custom Logic and Application Programming Services:
  - Production Manager, Nomination Control and Plunger Lift
  - Cause and Effect Logic
  - Gas Control Manager, Meter Run Totalizers and Run Switching
  - V-Cone Gas Measurement
  - Industrial Gases and Liquids
  - Modbus Interface Manager
- Valves, Actuators, Transmitters, Sensors
- SCADA Software and Integration Services
- System Commissioning and Support

Providing Complete Solutions

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