

2005 Flow Control
Innovation Award Winner

Promass Transmitter Features



Promass 83

- Quick setup for fast and easy commissioning
- Simultaneously record several process variables for various process conditions during measuring operation
- Touch control operation allows programming without opening electronics
- 4-line back lit display
- Advanced diagnostics, batching and concentration measurement
- IP 67 powder-coated die-cast aluminum field housing

FMC Technologies

**FMC Technologies and
Our Measurement Solutions
Legacy Brands**

FMC Technologies, Inc. is a global leader providing mission critical technology solutions for the energy industry. Its Measurement Solutions business unit excels in process systems, measurement technologies, transportation, and custody transfer of gases and liquids in the oil and gas industry. FMC Technologies employ approximately 13,500 people and operates 27 production facilities in 16 countries.

FMC Technologies sets the standard for global Best Measurement Practices by designing, manufacturing and servicing the precision products and systems used to measure and control liquids and gases in industrial applications.

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**Proline® Promass E
Coriolis Flowmeter**

**Product Guide for
Petroleum and
Production Metering**

Proline Promass E Coriolis Meters

Leading the field with Coriolis innovations

- Perfected straight dual tube design to make true “Fit-and-Forget” meters, eliminating the need for expensive pipe supports and long lengths of straight pipe runs in your installation
- Solved the problem of zero point drift through highly sophisticated welding and manufacturing techniques that ensure highest accuracy in welding tolerances and lowest impact on zero point stability
- Developed DSP (Digital Signal Processing) technology for Promass 83 transmitter to improve the signal-to-noise ratio and ensure optimum speed and accuracy – it’s the fastest on the market

Benefits of Coriolis Flowmeters from FMC Technologies

- Self-draining designs eliminate problems with clogging
- High-speed measuring with 20 ms response time
- Increased immunity to common pipeline noise
- Immunity to pipeline loading stress
- Routine re-zeroing of the meters is not necessary
- No supports or braces are needed for installation
- Temperature changes do not affect zero point stability

Sensors

best price, density accuracy and stability

- Highest density accuracy
- Compact, dual-tube design
- Rupture disk in the sensor housing (optional)
- Universal sensor, handles most applications – sizes 3/8" to 3"
- Sensor material: stainless steel 904L/316L
- Maximum fluid temperatures up to 284°F
- Fully traceable calibration for the highest accuracy

Size Range ¹	lb/min	BPH	GPM
3/8"	0 to 73.5	13	9
1/2"	0 to 238	41	29
1"	0 to 660	113	79
1-1/2"	0 to 1,650	283	198
2"	0 to 2,570	441	309
3"	0 to 6,600	1,132	792

Accuracy

Liquid	
Linearity	5% to 100% of max flow
Repeatability	.10% in 5 runs *
Gas	
Mass of Flow Rate	+/- .75%
Density Accuracy	
Field/Reference	± 0.0005 g/cc
Special Cal.	± 0.001 g/cc
Standard Cal.	± 0.02 g/cc

* Per API Chapter 5.6 Table 1* Per API Chapter 5.6 Table 1

Features

Tube Materials	904L
Process Temperature Range	-40 to 284°F
Max. Pressure Rating	1,200 psi (+)
Remote Version	Yes

¹Flow rates based on process water



Transmitters most economical, multi-purpose and highly sophisticated

Features

4-Line Backlit Display

Programming

HART
FieldTool
Touch Control

Housing

Compact aluminum
Compact stainless steel
Remote aluminum wall mount

65 ft. Maximum Remote Distance

Outputs

11 Fixed modules
8 Flexible modules
4 I/O combinations
Profibus-PA/DP
FOUNDATION Fieldbus
Modbus

Measured Variables

Mass flow
Volumetric flow
Density
Temperature

3 Totalizers

Sensor Memory Chip (S-Dat)

Transmitter Memory Chip (T-Dat)

Special Functions (F-Chip)

Advanced diagnostics
Concentration measurement
Batching

Quick Setup

Hazardous Area Approvals

XP; FM Cl. I Div. 1

Power Supply

85-260 VAC
20-55 VAC/16-62 VDC

¹Max number of:

Current outputs.....3
Frequency outputs.....2
Status/relay outputs.....2
Status inputs.....1