

*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.

По вопросам продаж и поддержки обращайтесь:  
[fca@nt-rt.ru](mailto:fca@nt-rt.ru)  
[www.fmc.nt-rt.ru](http://www.fmc.nt-rt.ru)

## **FMC Technologies**



## **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 <sup>1</sup>	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

<sup>1</sup>Flow rates based on process water



По вопросам продаж и поддержки обращайтесь:

fca@nt-rt.ru

www.fmc.nt-rt.ru

## 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

### <sup>1</sup>Max number of:

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