

*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

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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 <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



## 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

## По вопросам продаж и поддержки обращайтесь:

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