

The background of the entire page is a collage of various US dollar bills, including \$20, \$10, and \$5 bills, shown in different orientations and overlapping. The text is overlaid on this background.

The Measurement Investment

**A Sound Measurement
Investment Must Provide...**

The Highest **Accuracy**

The Most **Reliability**

The Lowest Overall **Cost**

**...in Combination with the Right
Technology to Yield the
Best Possible Solution**

The Right Product...

Terminal Loading Rack Solutions

Smith PRIME 4 PD Meters

The meter to trust in applications where reliability and accuracy are essential

- Innovative design features combine the advantages of a turbine meter with the stability of a traditional PD meter
- Designed for trouble free performance to ensure the most accurate and affordable measurement of liquids at the marketing terminal

Smith Guardsman L™ Series Turbine Meters

The preferred turbine meter at the loading rack

- Robust, fully welded stator and rotor design stands up to start-stop service
- Wide range of loading rack applications including gasoline, light fuel oil, diesel fuel, LPG, heating oil and aviation fuel

S-Mass Coriolis Mass Flow and Density Sensors

Exceptional performance combined with easy installation and low maintenance

- Direct mass measurement ensures accurate and repeatable performance, regardless of changing fluid conditions
- Well suited for asphalt and LPG loading applications

Refined Product Transportation Solutions

Smith Sentry™ and Guardsman™ Series Turbine Meters

A wide flow range for light to medium viscosity products

- High volume throughput per meter size
- Compact and rugged construction
- Highly stable with adequate flow conditioning

Crude Oil Production and Transportation Solutions

Smith PD Meters

Indisputably the most accurate meter for volume measurement, especially with high and medium viscosity petroleum products

- Directly measures volume reducing uncertainties caused by product variations
- Measures over the widest viscosity range because the flow range increases as viscosity increases
- Provides superior stability because the meter factor is constant over wide variations in viscosity, pressure and temperature

Smith MV Series Turbine Meters

The preferred turbine meter for crude oil service

- Choice of design options from low viscosity condensate to high viscosity crude oil
- Time proven Smith bearing system ensures long service life
- Highly tolerant to the effects of wax and other deposits

Apollo and S-Mass® Coriolis Mass Flow and Density Meters

High accuracy over a wide range of operating conditions

- Sustains high measurement accuracy independent of fluid properties such as changing viscosity, density, pressure and temperature
- Multi-variable outputs for fluid mass/volume, density and flowing temperature
- Available with HART communication protocol

...for the best possible solution

Smith PD Meters

*The **best** investment in petroleum measurement:*

- **The lowest operating cost** – Smith's low velocity and long radius flow path design minimizes pressure drop and operating cost
- **Unequaled stability** – the superior mechanical advantage of the rotary vane design, coupled with low-pressure drop, minimizes slippage and maximizes stability
- **Superior accuracy** – exceeds all custody transfer requirements

Smith Sentry and Guardsman Series Turbine Meters

*The **preferred** turbine meter for pipeline applications:*

- **Unmatched stability** – Smith's heavy-duty stators, hydraulically balanced rotors and tungsten carbide bearings ensure consistent measurement accuracy
- **Exceptional service life** – over 90% of the Smith turbine meters commissioned in the last 30 years are still providing trouble-free service today

Smith PRIME Meters

The superior stability of a PD meter combined with the advantages of a turbine meter:

- **Measure to zero flow** – every gallon is accounted for
- **Efficient, cost effective operation** – optimize loading speed with the lowest pressure drop meter in the industry
- **Exceptional stability** – exclusive polyketone blades, super-hardened cam and all-sleeve bearing construction for maximum stability
- **Low cost of ownership** – the only PD with 3 moving parts - minimizes maintenance and wear

Smith Guardsman L Series Turbine Meters

A true custody transfer meter for terminal applications:

- **Field-proven accuracy and stability** – expertly and successfully applied in more terminal installations than any other turbine meter
- **Long service life** – tungsten bearings on a durable support system for long term operation
- **Compact design** – an integral Strate Plate flow conditioner eliminates lengthy straightening sections

Apollo Coriolis Mass Flow and Density Meters

*The most **accurate** volumetric measurement available*

- **Engineered to provide high accuracy** – with low pressure drop for cost-effective measurement
- **Completely safe operation** – through the use of thick wall flow tubes rated to 1,500 psi
- **Full user access** – to all process variables and configuration parameters via its display interface

S-Mass Coriolis Mass Flow and Density Sensors

*The **advantages** of mass measurement:*

- **Exceptional Stability** – the patented “S” tubes provide a high signal-to-noise ratio and immunity to external vibration
- **Unsurpassed Accuracy** – exclusive Micro-Pak electronics deliver superior accuracy over a very wide operating range

Smith MV Series Turbine Meters

*All helical turbine meters are **not** created equal. The Smith MV Series Meter is a cut above:*

- **Long service life** – with over 30 years of service, the Smith bearing system has been proven for reliability and accuracy
- **Extended measurement and proving capability** – extended viscosity range beyond any helical meter can be achieved with Smith’s exclusive UPC Compensator. The only meter that provides high resolution output to prove with standard electronics
- **Lowest pressure drop** – when used with the Smith High Performance Flow Conditioner
- **Choice of design** – standardized designs for peak performance over mid-viscosity ranges and customized designs for optimum performance on high viscosity applications

FMC Measurement Solutions is the Only Supplier with...

...the Right Product for the Best Possible Solution



The Right Supplier

FMC Measurement Solutions is the world's leading supplier of measurement solutions:

Over 65 years of experience

Broadest range of technologies - from time proven, traditional metering equipment to newly developed, innovative products

Superior meters - PD Meters, Conventional Turbine Meter, Helical Turbine Meters and Colioli's Mass Meters

Unsurpassed in-house testing capacity to 40,000 BPH

Global capabilities and worldwide sales, manufacturing, service and support, and distribution



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