

# Installed Product Services

A service group of **FMC Measurement Solutions**

**Putting 65 Years Experience to Work . . .**  
**Providing Total Solutions for System Improvements**

IPS will examine your measurement system and define problem areas, then provide an itemized list of equipment and actions required to bring your system out of obsolescence and into excellent working condition. Whether your system was supplied by Smith Systems, or any other manufacturer, IPS has the capability to manage the improvement process from start to finish.

## Parts Supply

*For Excellent Working Condition*

- ◆ Commissioning and maintenance spares
- ◆ Replacements for obsolete components
- ◆ Upgrading components

## Service

*With First Class Reliability*

- ◆ Commissioning and start-up
- ◆ Meter and prover certification and calibration
- ◆ Installation supervision
- ◆ Maintenance and operating contracts

## System Upgrades

*For Optimum Performance*

- ◆ Increase capacity and provide additional metering runs
- ◆ Flow computer and control system modernization
- ◆ Interface with SCADA and DCS
- ◆ Reduce measurement losses

## “Credit Due” Program

*For Environmental Responsibility*

- ◆ Provides credit for used Smith equipment

**I**nstalled Product Services is a global measurement partner to the petroleum industry. Working in unison with the local Smith Meter distributor, IPS provides the expertise and innovation necessary to help petroleum customers worldwide regain optimum performance of all installed flow measurement equipment and systems.

Let the IPS team of measurement experts boost your competitive advantage through implementation of system improvements and improved measurement accuracy. Utilizing its diverse array of capabilities, IPS can orchestrate cost effective solutions to bring peak performance back to your measurement system.

IPS is dedicated to getting you results -

- ◆ Increase measurement accuracy and certainty
- ◆ Increase safety
- ◆ Reduce downtime
- ◆ Greater efficiency through automation
- ◆ Code and Standards compliance
- ◆ Enhance environmental protection

## Applications Serviced by IPS

- ◆ Pipeline terminals
- ◆ Large LACT skids
- ◆ Refineries
- ◆ Marine terminal loading/offloading
- ◆ Floating storage and offloading vessels (FSOs and FPSOs)



**Putting 65 Years Experience To Work . . .**  
**Providing Expert Evaluation and Implementation**

*From  
 evaluation - through  
 implementation of  
 system improvements -  
 to subsequent savings,  
 IPS provides  
 total solutions.*

Backed by Smith Meter's expertise and world leadership in installed equipment, IPS has the knowledge and resources to provide expert evaluation and implementation of processes to improve your measurement system's operation. Rely on IPS to provide the following services:

**Training**

*To Maximize Operational Performance*

- ◆ Measurement equipment and theory
- ◆ Standards and specifications
- ◆ Operational procedures
- ◆ Maintenance procedures

**Measurement Consulting Services**

*For Installed Equipment Evaluation*

- ◆ Application engineering
- ◆ System surveys
- ◆ Problem analysis and solutions
- ◆ Codes and standards compliance

**Project Management**

*To Streamline Solution Application*

- ◆ Resource planning and procurement
- ◆ Scheduling
- ◆ Project logistics
- ◆ Supervision

Throughout the process, the IPS team will guide you in a streamlined, cost-effective manner with minimal downtime and measureable improvement results.

**Putting 65 Years Experience To Work . . .**  
**Saving You the Cost of Measurement Uncertainty**

Financial losses can add up fast. By reducing uncertainty by only 0.1%, at a flow rate of 8,000 BPH, up to \$3,840 per day in savings can be realized. *That's nearly \$1.5 million per year!*

**Costs of Measurement Uncertainty**

BPH	Potential Daily Financial Loss (@ \$20 per barrel)				
1,000	\$ 480	\$ 960	\$ 1,440	\$ 1,920	\$ 2,400
2,000	960	1,920	2,880	3,840	4,800
4,000	1,920	3,840	5,760	7,680	9,600
8,000	3,840	7,680	11,520	15,360	19,200
12,000	5,760	11,520	17,280	23,040	28,800
20,000	9,600	19,200	28,800	38,400	48,000
40,000	19,200	38,400	57,600	76,800	96,000
80,000	38,400	76,800	115,200	153,600	192,000
	0.1%	0.2%	0.3%	0.4%	0.5%
	% of Measurement Uncertainty				

IPS can reduce uncertainty and cut your financial losses. Let IPS bring certainty back into your total measurement equation.

Call the  
 experts with 65 years  
 experience - IPS.  
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