



Data Sheet
PFS-DP
Transmitter

PFS Battery Powered Differential Pressure Transmitter

Highly Accurate, Portable Flow Measurement Readings

Primarily Flow Signal, Inc. is a leader in the design and manufacture of Venturi differential flow meters. Field-proven in hundreds of thousands of installations worldwide, differential metering ensures the most accurate and reliable metering available anywhere. Through innovation, coupled with peerless engineering and technical expertise, PFS delivers customers versatile, ultra-long lasting liquid and gas metering solutions for a variety of applications and industries.

The **Battery Powered DP Transmitter** provides accurate flow rate and totalization readings for applications, including gas, water, cryogenic liquids, chemicals, and air as limited by materials.



When installed with any of our differential devices, this lightweight, easily mounted transmitter produces a complete turn-key solution. The Battery Powered Differential Pressure Transmitters can be applied to all PFS meters, such as the WedgeType™ flow meter for accurate monitoring of oil and gas, as well as our Venturi flow meters to provide options for high accuracy in demanding applications, like water/wastewater and viscous materials.

PFS Battery Powered DP Transmitter Features

Accuracy:

Actual DP Indication:
+/- (1.0% F.S. +1 digital) at 75° F
Output Accuracy:
+/- 0.5% F.S. at 75° F

Temperature:

Fluid: 0° F to +150° F
Ambient: 0° F to +120° F
Humidity: < 85% RH

Alarm Output Type:

Open collector 2-points

Display: Non-resettable
“grand” totalizer

Auto-ranging rate display

D.P. Range:

1kPa, 2kPa, 5kPa, 10kPa,
20kPa, 50kPa

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Performance Data	
LCD Characters	18mm
Battery Type	LCR6 2pcs
Battery Life	Approx. 2 years (with proper storage)
Scale	Square root extraction available
Flowrate Range	-5% to 110% of DP range or max. 0 to 1999
Load	Less than 30V DC/ 80mA
Current Output	4 to 20 mA DC
Power Consumption	Less than 80mA
LonWorks Type	24V AC
Process Connection	Rc1/4 (with built-in press valve)
Materials	
Body	316 stainless steel
Battery Type	316 stainless steel
O-Ring	Fluorine rubber
Drain Hole Sealing	Aluminum oxide
Housing	Aluminum alloy
Weight	2lbs (with battery)
Mounting Position	Vertical direction for diaphragm face
Additional Information	
	Field-programmable

PFS Battery Powered DP Transmitter Available Ranges			
Model Number	Min. DP Range	Max. DP Range	Max. Pressure
TM-PFS01-00001	8.0	20.1	290 PSI
TM-PFS01-00002	16.0	40.2	290 PSI
TM-PFS01-00003	32.2	80.4	290 PSI
TM-PFS01-00004	80.4	201.1	290 PSI

*Allowable differential pressure: 804.4" single side

Support and Service

Our full-time, dedicated service group offers 100% trustworthy support and recertification for flow meters — whether our own or a competitor's brand. Our meter proving services are performed by our trained technicians and the latest testing equipment. Custom meters and instrumentation options for your application are readily available. Our products are always in stock and ready for immediate shipment, typically within 24 hours.

Certifications

ISO 9001, ASME S, U, R; European PED Module H; and other internationally recognized certifications, such as GOST, IBR, and CRN.

Worldwide Support

We serve customers worldwide delivering proven differential and turbine meters, and fire suppression solutions. Our U.S. offices are located in Rhode Island (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC. We also have offices in Edmonton, Alberta, Canada; Beijing, China; and Dubai, United Arab Emirates.

Contact your PFS, Inc. Field Application Engineer for assistance.



All PFS products are proudly made in the U.S.A.



Primary Flow Signal
Headquarters

800 Wellington Avenue
Cranston, RI 02910 USA
Tel: +1-401-461-6366
Fax: +1-401-461-4450

www.primaryflowsignal.com



Turbines, Inc.™

15935 U.S. Highway 283, PO Box 933
Altus, OK 73522 USA
Tel: +1-580-477-3067
Fax: +1-580-477-3071

www.turbinesincorporated.com

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Systems

PFS-Fire Suppression Group, LLC
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6 Grand View Street
Coventry, RI 02816
Tel: +1-401-828-9787
Fax: +1-401-828-9788

www.pfs-fsg.com