



First choice when
quality counts.

PPM 3000 Series Positive Displacement Flow Meters

- Carbide and stainless steel construction provides high reliability and long life
- 50:1 turn down ratio provides high accuracy over wide range of flow rates
- Handles all commonly applied material
- Available in an intrinsically safe version for hazardous locations

The PPM 3000 flow meter (when used with a Graco display) provides critical information such as material flow rate, volume of material used per batch (per part, per hour, per shift, etc.) and total volume. This information can be used to control and optimize finishing operations, improve quality assurance, monitor two component material ratios and assist with regulation compliance by reporting and recording the volumes of material used.

The PPM 3000 is a highly accurate fluid measuring instrument. The design uses stainless steel housing and gears, carbide bearings and solid state electronics that read gear position magnetically through the housing. These features ensure reliability and easy maintenance in demanding applications. The PPM 3000 is compatible with a wide range of coatings such as abrasives and corrosives and a wide range of application pressures from airspray to air assisted to airless. The PPM 3000 is also available in an intrinsically safe version (PPM 3000H) when the meter must be located in a hazardous or explosive environment.

The PPM 3000 series meters provide a pulse output that can be monitored by a wide variety of programmable controllers, or by Graco's PPD 200 display. The PPD 200 will display flow rate, batch and total volume information in US or metric units, and it can communicate that information to a local printer for hard copy documentation. It can also communicate with a personal computer via RS-485 to monitor multiple units and generate spread sheets and reports.



PPM 3000

PPM 3000H
for hazardous
locations

**Versatile,
Accurate
and Easy
to Use**

COMPONENTS

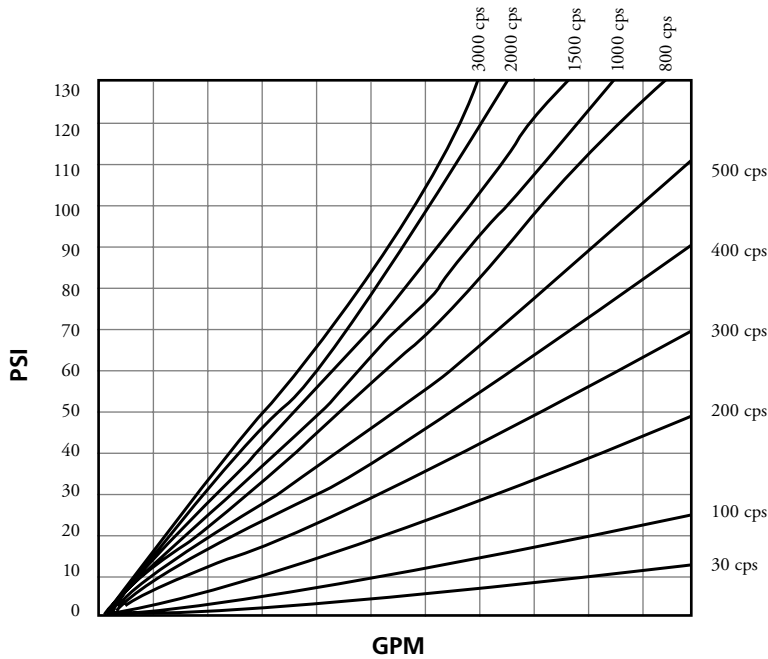
Technical Specifications

Accuracy	+/-0.5%
Fluid ports	1/4 npt(f)
Maximum fluid temperature	
PPM 3000	180°F (80°C)
PPM 3000H	250°F (120°C)
Maximum pressure	
PPM 3000	2000 psi (140 bar)
PPM 3000H	3000 psi (210 bar)
Construction	303/321 SST, tungsten carbide, Teflon®
Flow rate range	
PPM 3050	0.01 – 0.5 gpm (0.038 – 1.9 l/min.)
PPM 3100	0.02 – 1.0 gpm (0.075 – 3.8 l/min.)
PPM 3550	0.10 – 5.5 gpm (0.380 – 21 l/min.)
PPM 3050H*	0.01 – 0.5 gpm (0.038 – 1.9 l/min.)
PPM 3100H*	0.02 – 1.0 gpm (0.075 – 3.8 l/min.)
PPM 3550H*	0.10 – 5.5 gpm (0.380 – 21 l/min.)
Instruction manual	308-243

*PPM 3000 Series meters with an "H" suffix are intrinsically safe for hazardous locations when used with appropriate safety barriers.
 Teflon® is a registered trademark of Du Pont.

Pressure Drop Curve

For most commonly used coatings, the PPM Series meters will provide accurate flow/volume readings to within ±0.5%.



PPM 3050/3050H	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55
PPM 3100/3100H	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10
PPM 3550/3550H	0	0.32	0.65	0.97	1.30	1.62	1.94	2.27	2.59	2.92	3.24	3.43

Accessories

- 110-458 Cable seal**
For intrinsically safe electrical cable. Provides a sealed passageway for the cable from the Hazardous to the Non-hazardous locations.
- 188-330 Meter mounting bracket**
For mounting any PPM 3000 Series meter to a wall.
- 223-160 Fluid filter**
Max working pressure: 5000 psi (350 bar)
Stainless steel bowl with polyethylene support.
NOTE: Filter 223-160 has a 60 mesh screen.
To help prevent premature meter wear, the use of a 100 mesh screen is recommended.
- 167-026 100 mesh filter screen**
Recommended for use with Fluid Filter 223-160.
- 111-969 Female nut**
For connecting between 1/4 in. gland 111-970 and 1/4 npt(m) 111-972.
- 111-970 Gland**
Max working pressure: 770 psi (531 bar)
For connecting rigid tubing to meter.
1/4 in. tube socket.
- 111-972 Connector**
Max working pressure: 7300 psi (511 bar)
For connecting between flow meter adapter and nut 111-969. Teflon O-ring face seal. 1/4 npt(mbe).

PPD 200 Digital Display Monitor for Remote Monitoring and Reporting

The PPM 3000 Series meters can be connected to a completely remote tabletop display that provides full remote monitoring and reporting functions – the PPD 200. The easy-to-use display comes preprogrammed from the factory to verify fluid use by rate and volume. A non-resettable totalizer is also included for cumulative environmental reporting.

This highly capable reporting module has an RS485 serial port for printer communication and networking. It can easily be converted to an RS232 serial port for computer system monitoring.

The PPD 200H version of the PPD 200 features a built-in safety barrier making it suitable for monitoring a meter installed in a hazardous location.

When you need a remote monitor for the PPM 3000 Series, Graco gives you the best in the PPD 200.

PPD 200 Accessories

- 235-599 Printer**
235-598 RS 485 to RS 232 Converter
235-597 Printer cable
308-242 Instruction manual

See back page chart for ordering part numbers.



Ordering Information

Unit	Meter Only	PPD 200 Display Only	Meter, PPD 200 & 25 Ft. Cable	Meter, PPD 200 & 50 Ft. Cable	Meter, PPD 200 & 100 Ft. Cable
PPM 3050	235-587	235-610	235-750	235-751	235-752
PPM 3100	235-588	235-611	235-753	235-754	235-755
PPM 3550	235-592	235-612	235-756	235-757	235-758
PPM 3050H	235-593	235-613	235-770	235-771	235-772
PPM 3100H	235-594	235-614	235-773	235-774	235-775
PPM 3550H	235-589	235-615	235-776	235-777	235-778