

PHOTON CONTROL INC.

The Focus[®] Probe optical flow meter (OFM) has been specifically developed for gas applications with highly variable flow rates and a wide range of pipe diameters. The OFM accuracy is not affected by gas composition or contamination of the sensing elements.

The Focus[®] OFM uses laser beams to measure the gas flow by sensing the velocity of microscopic particulates naturally occurring in the gas.

Advantages of using the Focus[®] Probe OFM:

- easy installation
- no moving parts
- high turn-down ratio (1000:1)
- repeatable measurement throughout product life
- high accuracy not affected by gas composition
- minimal flow blockage and low pressure drop
- immune to pipe vibration and acoustic noise
- intrinsically safe optical measurement

FOCUS[®] PROBE OPTICAL GAS FLOW METER



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PERFORMANCE SPECIFICATIONS

Velocity Measurement Range	• 0.1 m/s to 100 m/s
Velocity Measurement Accuracy	• Typically 2% of reading from 1.0 to 100 m/s • Typically 3% of reading from 0.1 to 1.0 m/s
Measurement Update Rate	• 1 s

OPERATING SPECIFICATIONS

Ambient Temperature	• Powerup: -20°C to +40°C • Operating: -40°C to +60°C
Process Temperature	• -40°C to +100°C
Maximum Process Pressure	• 100 psig
Pipe Diameter	• 4in to 24in

ELECTRICAL SPECIFICATIONS

Power Requirements	• 10 - 30 VDC • 150 mA @ 24 VDC or 300 mA @ 12 VDC typical
Analog Input Interface	• Pressure and Temperature Transmitter (4 - 20 mA)
Analog Output Signal	• Frequency/Pulse • Current loop (4 - 20 mA)
Digital Output Signal	• RS-232 (proprietary protocol) • RS-485 (Modbus)
System Diagnostics	• Low particle signal level alarm

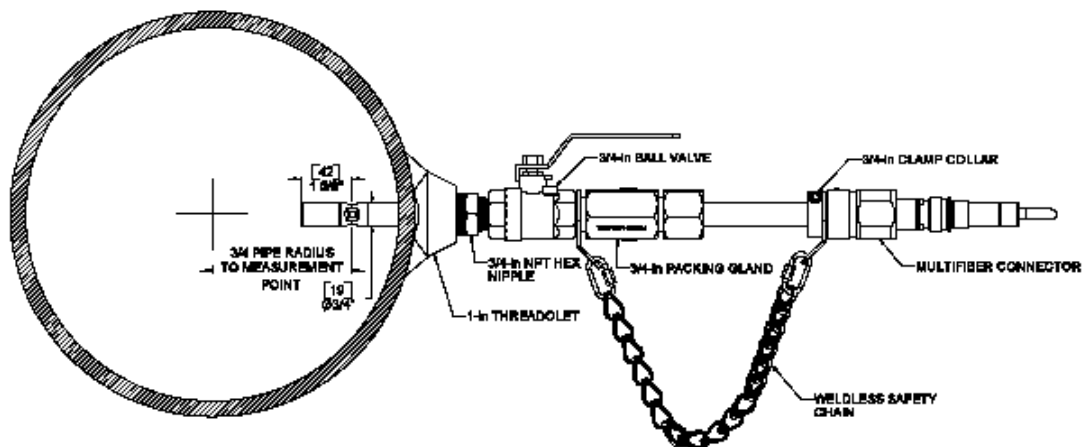
PHYSICAL SPECIFICATIONS

Probe Diameter	• 0.75in (19.1mm)
Probe Length	• 21in (529mm) as shown in diagram
Wetted Materials	• Meter Body: 316L stainless steel • Optical Windows: Borosilicate Glass
Fiber-Optic Extension Cable	• 3/8in detachable flexible armoured cable

PRODUCT OPTIONS

Electronics Enclosures	• DIN rail • NEMA 4X (Class 1 Zone 2) • Explosion-proof (Class 1 Zone 1)
Data Logging	• Display and Totalizer
Sensors	• Integrated Pressure and Temperature Sensors

TYPICAL METER INSTALLATION



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