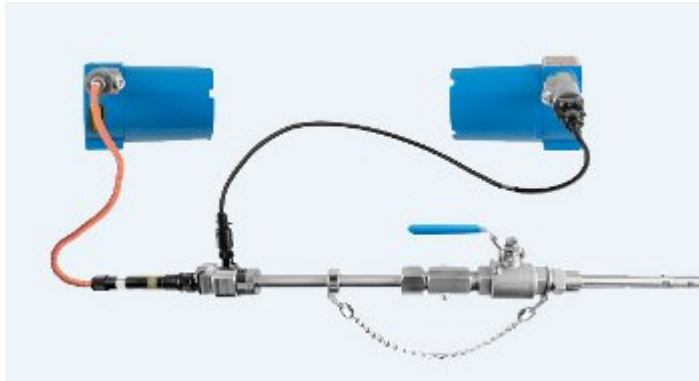




Focus Optical Flow Meter (OFM) from Photon Control



The Focus Optical Flow Meter is easy to install and is cost-effective, but its high turndown ratio enables oil companies to determine a wide range of flow rates. The Focus OFM uses laser beams to determine the gas flow by sensing the velocity of microscopic particulates naturally occurring in gas. The system includes an optical flow processor, a flow sensor and a heater power supply. The optical flow sensor senses the gas stream particles by focusing two laser spots in the gas stream. The optical flow processor measures the velocity or flow rates of the gas based on the optical signals from the flow sensor. The heater power supply offers intrinsically safe power to a heater located on the flow sensor optical window to prevent condensation. The focus probe is compliant with ASME Code Section VIII, Division I for pressure safety and is rated intrinsically safe by CSA

Key Features

The key features of the focus optical flow meter are:

- High measurement accuracy (up to $\pm 2.5\%$)
- High turndown ratio (1500:1)
- Wide pipe diameter range (4 to 30 inches)
- Immune to acoustical noise and pipe vibration
- Minimal flow blockage and low pressure drop
- Intrinsically safe
- Increased resistance to corrosive process conditions
- Compliance with ERCB, OGC, API regulations and directives
- Flexible I/O ports (Frequency, 4-20mA, ModBus RTU outputs)
- Easy installation and maintenance

- Accuracy not affected by gas composition

Applications

The applications of the focus optical flow meter are:

- Gas flow measurement for flare and vent gas applications
- Bio-gas measurement applications
- Flare monitoring for reducing waste & increasing process efficiency
- Emissions measurement for compliance with environmental regulations



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Photon Control develops, manufactures and markets optical-based technology products for virtually any industry.

Photon's product line includes optical flow meters for natural gas and flare measurement, sensors, spectrometers, and a number of purpose built OEM solutions.

Photon Control, Inc. is an engineering design, development, and manufacturing company located in the Vancouver area on the beautiful West Coast of Canada. Our outstanding team of optical, mechanical, and electrical engineers has many years of experience in product design and precision manufacturing.

We develop proprietary optical sensing technologies that are integrated into successful products installed around the world. Our focus on custom engineering coupled with our certified clean-room manufacturing capabilities has enabled us to provide high-tech, cost-

effective solutions to industry leaders in the semiconductor, power utility, and medical equipment industries.

Primary Activity

Material Manufacturer