

For an in-depth explanation of how each flow meter technology operates, visit one of our educational flow meter technology pages by clicking on technology-type link below.

The light source is cleverly directed at the surface at a shallow angle to enhance contrast in surface texture, producing an ideal image for optical flow analysis. This same principle is also seen in ...

Scintillation-style optical flowmeters require a long optical path in order to maximize the angle at which light will be refracted. Thus, they function best when used to measure across the full ...

By harnessing the principles of laser light interaction with moving particles within the fluid, they offer a unique approach to flow measurement. This not only enhances accuracy but also opens doors to ...

Optical flow meters operate based on the principle of light scattering or reflection. They use a light source, such as a laser or LED, to illuminate particles suspended in a fluid.

One of the techniques is to measure the signal of the optical sensor by measuring in samples. The emitter sends short pulses of light, and then the MCU measures the signal from the receiver. This ...

Learn about the different types of flowmeters and explore their operating principles. Understand the costs, suitability, accuracy, challenges associated with other flow measurement methods, and the ...

Optical flowmeter uses light reflection to measure the velocity of the flow stream. It measures the time of flight of light to measure the flow of a stream. Opposite sides of the pipeline is ...

Time-of-flight optical flow meters operate by measuring the time it takes for an optical pulse or pattern to travel between two sensors. The time measurement, along with a known distance between the ...

With no moving parts and using light as the sensing medium, the upper limit for an optical flow meter can extend into supersonic velocities. This combination of excellent low-velocity ...

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