

A laser Doppler velocity meter consists of two lasers, unit for beam formation, sensor, receiving unit, unit of time delays, and electro-optical device and optical phase controller. Measuring zone is formed by beams that have orthogonal polarizations, and at the outlet of the photo-receiver two in-phase Doppler signals are formed. The device provides suppression of high-frequency interfering signals when receiving dissipated back radiation and increase of the signal/noise ratio.