

Method for determining the relative noise level in pressure measurement channel consists of measuring line and pressure sensor, and involves using sensor to measure a single instance of random pressure at outlet of measuring line. Fluid pressure from output of measuring line is transmitted through hydraulic manifold to inputs of m pressure reducers and to the first switch, from output of which pressure is fed to main pressure sensor and, through the second switch, to auxiliary pressure sensor with wide bandwidth. From outputs of m pressure reducers, pressures of varying magnitudes are transmitted to inputs of the first switch, which switches pressures of varying amplitude to input of main pressure sensor and, via the second switch, to input of auxiliary pressure sensor. From outputs of main and auxiliary pressure sensors, electrical signals are sent, respectively, to the first and second blocks for determining the phase portraits of random pressure processes, and then to the first and second blocks for determining the Euclidean distance between the rows and columns of phase portrait image matrix. From output of the first block for determining the Euclidean distance, signal dependent on the pressure amplitude at input of main sensor is routed through inverter to the first input of adder. From output of the second Euclidean distance calculation block, similar dependent on the pressure amplitude at input of auxiliary sensor is sent to the second input of adder; from adder's output, signal is fed to the first input of comparator, to the second input of which signal from output of threshold signal generator is fed; depending on the level of this signal at comparator's output, information signal is generated indicating the relative noise level in pressure measurement channel.