

Microelectronic converter for pressure measurement with a frequency output comprises a pressure-sensitive resistor, three resistors, a DC voltage source, a blocking capacitor, and a bipolar transistor. A single-gate field-effect transistor, a dual-gate field-effect transistor, a fourth resistor, and two capacitors are introduced into it. A first pole of the DC voltage source is connected to a first terminal of the first resistor, to a first terminal of the blocking capacitor, to a drain of the single-gate field-effect transistor, and to a first terminal of the fourth resistor. A second terminal of the first resistor is connected to a channel of the single-gate field-effect transistor and to a second terminal of the first capacitor, a first terminal of which is connected to a source and a gate of the single-gate field-effect transistor, to a first terminal of the second resistor, and to a drain of the dual-gate field-effect transistor, which is connected to a second gate of the dual-gate field-effect transistor, a first gate of which is connected to a second terminal of the fourth resistor. A second terminal of the DC voltage source is connected to a second terminal of the blocking capacitor, to a second terminal of the pressure-sensitive resistor, a first terminal of which is connected to a first terminal of the second capacitor and is connected to a base of the bipolar transistor. The first terminal of the pressure-sensitive resistor is connected to a second terminal of the second resistor, to a first terminal of the third resistor, a second terminal of which is connected to interconnect a source of the dual-gate field-effect transistor and an emitter of the bipolar transistor, a collector of which is connected to the second terminal of the second capacitor, to the second terminal of the pressure-sensitive resistor, to the second terminal of the blocking capacitor, and to the second terminal of the DC voltage source, which are connected to a ground.