

Microelectronic humidity converter comprises a constant voltage source, a single-gate field-effect transistor, and two resistors. There are introduced therein a bipolar transistor, a dual-gate field-effect transistor, a humidity-sensitive resistor, two resistors, a blocking capacitor, and two capacitors. A first pole of the constant voltage source is connected to a first terminal of a 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 a 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 a 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 a 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 pole of the constant voltage source is connected to a second terminal of the blocking capacitor, to a second terminal of the humidity-sensitive resistor, a first terminal of which is connected to a first terminal of a second capacitor and is connected to a base of the bipolar transistor. The first terminal of the humidity-sensitive resistor is connected to a second terminal of the second resistor, to a first terminal of a third resistor, a second terminal of which is connected to a mutually connected source of the dual-gate field-effect transistor and an emitter of the bipolar transistor, a collector of which is connected to a second terminal of the second capacitor, to the second terminal of the humidity-sensitive resistor, to the second terminal of the blocking capacitor, and to the second pole of the constant voltage source, which are connected to ground.