

Self-oscillating magnetic field induction transducer for wireless sensor networks comprises a DC voltage source, the first terminal of which is connected to the first terminal of the first capacitor and the first terminal of the inductor, the second terminal of which is connected to the collector of a bipolar transistor, as well as a first resistor. Wherein a magnetosensitive diode, a field-effect transistor, a second resistor and an output capacitor are introduced into it. The first terminal of the DC voltage source is connected to the first terminal of the first capacitor, the first terminal of the magnetoresistive diode, and the drain of the field-effect transistor. The second terminal of the magnetoresistive diode is connected to the first terminal of the first resistor and the first terminal of the second resistor, the second terminal of which is connected to the common wire. The first terminal of the first resistor is connected to the base of a bipolar transistor, the collector of which is connected to the drain of the field-effect transistor and the first terminal of the output capacitor, the second terminal of which is the output terminal, as well as to the first terminal of the inductor, the second terminal of which is connected to the common wire.