

Annotation

The purpose of this diploma project is to develop an ultrasonic device to control the heat consumed in residential buildings and enterprises, as well as to control the coolant.

In the diploma modern variants of devices with the analysis of the principle of action and their use in various spheres of activity were considered, the comparative characteristic with schemes and tables is given. Conclusions are made regarding the priority of using an ultrasonic heat meter and suggestions for its improvement.

The operation of this device is based on the method of ultrasonic measurement. The device consists of an electric computer, a flow meter with ultrasonic sensors and temperature sensors.

In the diploma project the modeling and calculation of the ultrasonic heat energy meter was carried out, the functional, structural, electric scheme and assembly drawing of the device were developed.