

## **Summary**

The task of this bachelor project is to develop a device for contactless measurement of temperature.

Today the question of measuring the temperature in the distance, is very important. Measuring the temperature on the thermal radiation creates an opportunity to circumvent the difficulties that are in the contact measurement of the temperature, as missing a direct effect of temperature on the construction materials of the measuring device.

In this diploma project was developed by the radiation pyrometer.

Functional diagram of the device consists of the optical circuit, sensor of infrared radiation, two differential amplifiers, analog-to-digital converter, the procedures of compensation of the temperature sensor, microcontroller and a display. Well done principal scheme, assembly drawings, the optical scheme and detailing.