



RESISTANCE-TYPE TEMPERATURE SENSORS

Resistance-type temperature sensors are presently the world-wide devices for temperature measurement. They are very used in all branches of industry, for example in the machinery, automotive industry, chemical industry, food-processing industry, etc. But there are many other possibilities of usage them. They are also used for example as measuring standards for calibration of other types of sensors or thermometers. The main advantages of them are stability, accuracy and good shape of signal.

Resistance-type temperature sensors operate on the base of relation between a material resistance and a temperature. The pure metal materials are most often used, for example platinum, nickel, copper and their alloys. The relationship between resistance of these materials and the temperature presents quadratic function. But it is not valid for semiconductor or special resistance-type sensors. For example, the relationship for the thermistors NTC is hyperbolic – the resistance decreases when the temperature increases.

The company SENSIT s.r.o. is engaged in development, production and distribution of resistance-type temperature sensors as early as the year 1991. During this time the company came in the most significant producers of temperature sensors on the Czech market. The competitive strength was verified not only on the Czech market but also on the Slovakia, German, Austrian and Helvetian market. The company grew into the suppliers of temperature sensors for important Czech producers of air-condition devices and devices for kitchens. Therefore, products of the company SENSIT s.r.o. are known for users in the whole Europe. The company is successful thanks to wide range of products, capability of the flexible response on the specific requirements of a customer and capability to meet the requirements on small-series or requirements on single-part production whereas the high quality of the products is guaranteed.

Temperature sensors produced by SENSIT s.r.o. are fully compatible with control systems of the firms LANDIS Gyr, SAUTER, SAIA, AMIT, TECO, GFR, JOHNSON CONTROLS, STAEFA CONTROL, SIEMENS, HONEYWELL and others.