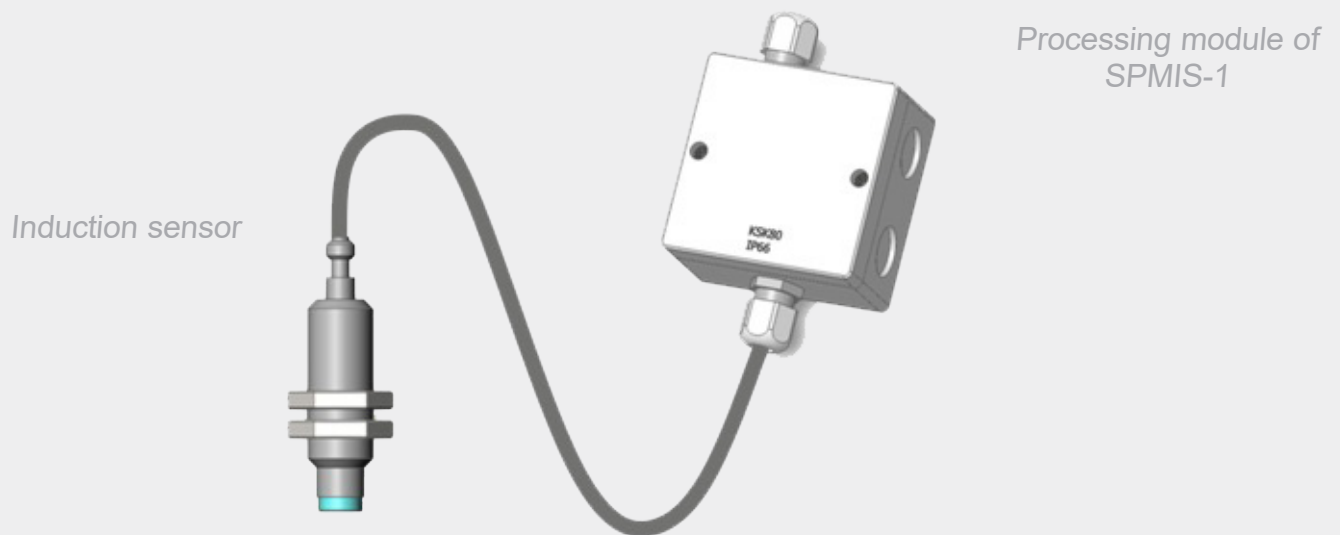


SIGNAL PROCESSING MODULE OF INDUCTION SENSOR

Signal Processing Module of Induction Sensor (SPMIS-1), together with an induction sensor, is designed to determine the rotational speed of shafts, rotors, or other rotating parts. SPMIS-1 generates discrete logic signals of warning and alarm when measured values of frequency or speed exceed the established threshold values. The frequency or speed measuring section consists of a commercially available induction sensor (IS) and SPMIS-1 modules.



SPECIFIC FEATURES

- ▶ Software configuration of warning and alarm thresholds for frequency and speed measurement using high-level software (supplied with the module).
- ▶ The RS485 digital interface allows simple "string" installation of this sensor type with other sensors with the same interface.

MAIN TECHNICAL CHARACTERISTICS

Actual frequency length	0...5000 Hz
Period measuring range	$2 \cdot 10^{-4} \dots 200$ c
Communication interface, digital interface of a standard	RS 485
Operating temperature range	-10...+70°C
Sensor supply voltage	10..30 V DC
Consumed power	No more than 1,5 Watt
Overall dimensions of a sensor	80x80x50
Weight	0,3 Kg

Design Solutions of Physical Process Analysis Design Bureau

Physical Process Analysis Design Bureau of PC "RPC Radiy" is set up for development of seismic protection systems, calibration equipment and qualification of product data at NPP. The bureau designs and implements the Seismic Sensor that is the source of seismic data for the seismic protection equipment. Other successfully designed and implemented product is the vibration measuring system for periodic calibration of seismic sensors in semi-automatic mode. Besides nuclear products the design bureau has developed the Information Acquisition and Display Unit that is the basic item in any monitoring system design including the Automatic System for Early Diagnostics of Emergencies. Additionally, the design bureau develops the angle precision gages for the wide scope of measurement.