



International Frequency Sensor Association (IFSA)

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FOR IMMEDIATE RELEASE

Two Novel Methods for Duty Cycle and Phase Shift Conversion – a Lot of New Possibilities

Advanced methods of measurement for frequency-time domain signals

November 21, 2002, TORONTO, ON – International Frequency Sensor Association (IFSA), announces two *novel methods of measurement for duty-cycle and phase-shift*. The methods are based on determination of average time interval and average period during the conversion time, multiply to the period of signal T_x . Both methods permit completely eliminate the component of error depending from the converted period of signal. The quantization error of methods does not dependent on the converted frequency and is determined by the pulse duration t_x . Other significant features include a non-redundant conversion time (it is determined by the programmable error of period conversion) and wide range of frequencies of input signals.

An inventor - Prof. Nikolay V. Kirianaki, IFSA President has noted: “It was logical continuation of many years researches in the field of new methods of measurement for frequency-time parameters of electric signals based on the Method of the Dependent Count TM. Both new methods can be released with minimum possible hardware like program-oriented methods TM of measurements”.

Possible applications include (but not restricted) self-adaptive duty-cycle or phase-shift smart sensors, transducers, converters, universal multifunctional counters, data loggers, frequency-time domain DAQ boards and hand-held multifunctional multimeters. The methods provide a cost-effective solution for end users and measuring instruments designers who require high precision and low-cost instruments. The licenses including exclusive are available.

For additional information on these new methods and licenses, please contact the International Frequency Sensor Association (IFSA), at phone/fax (380) 322 970857, E-mail: info@sensorsportal.com.

International Frequency Sensor Association (IFSA) is professional association, created with the aim to encourage the researches and development in the area of smart sensors with frequency, time interval, duty-cycle and digital output, including multifunction, multifrequency transducers, the usage of new physical effects and principles. IFSA reports about current research in this field worldwide.

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