

A nuclear quadrupole transducer for quantum frequency standard comprises a resonant circuit with temperature detector and two vc diodes. The resonant circuit is connected to frequency control circuit of transducer generator-detector which first high frequency output is connected to first input of conjunctor, and second low frequency output is connected to inputs of phase detectors of first and second differential coefficients. The transducer comprises a composer of modulation signals which first output is connected to control input of phase detector of first differential coefficient, second output is connected to control input of phase detector of second differential coefficient, and third output is connected to cathodes of vc diodes, integrator connected by input to output of phase detector of first differential coefficient and by output is connected to second vc diode anode.