

Device for non-contact measurement of the temperature of the hydrogenerator rotor contains a lens, an infrared receiver containing n individual infrared sensors, a first frequency divider, a buffer register, a switch, a data preparation unit, two pulse generators, two controlled amplifiers, a video control unit, two counters, a voltage generator, a memory unit, a position sensor, a position setting unit, a speed setting unit, a clock divider, two registers, two digital comparators, an indicator, a digital adder, two triggers, two AND elements, an analog-to-digital converter, a digital-to-analog converter, a data buffer, and a trigger unit. A third digital comparator, a third register, a second frequency divider, a third counter and a decoder are introduced, and the output digital bus of the position sensor is connected to the first input digital bus of the third digital comparator and to the input digital bus of the third register, the output digital bus of which is connected to the second input digital bus of the third digital comparator, the output of which is connected to the second input of the third register and with the input of the second frequency divider, the output of which is connected to the second input of the third counter, the first input of which together with the first input of the third register are connected to the output of the first digital comparator, the output digital bus of the third counter is connected to the input digital bus of the decoder, the output digital bus of which is connected to the input digital bus of the indicator.