

Device for non-contact temperature measurement of a hydrogenerator rotor comprising a lens, an infrared receiver containing n separate 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, a first counter, a voltage generator, a memory unit, a position sensor, a position setting unit, a speed setting unit, a clock distributor, two registers, two digital comparators, a digital adder, two triggers, three AND elements, a NOT element, an indicator, and a differentiating element. A third digital comparator, a third register, a second frequency divider, a second counter, and a decoder are introduced, wherein an output digital bus of the position sensor is connected to a first input digital bus of the third digital comparator and to an input digital bus of the third register, the output digital bus of which is connected to a second input digital bus of the third digital comparator, the output of which is connected to a second input of the third register and to an input of the second frequency divider, the output of which is connected to a second input of the second counter, the first input of which together with a first input of the third register are connected to an output of the first digital comparator, an output digital bus of the second counter is connected to an input digital bus of the decoder, the output digital bus of which is connected to an input digital bus of the indicator.