

Device for monitoring data errors represented in a residue number system (RNS) comprising an input register and an OR element, an output of which is an output of the device, wherein an input of the device is connected to an input of the input register consisting of n sub-registers, where n is a number of bases m_i of the RNS. Into the device, an inverter of a content of a first sub-register by a smallest m_1 base of the RNS of the input register and a group of $n-1$ adders are introduced $(a_1 + \overline{a_2}) \bmod m_{1i}$, $i = \overline{2, n}$, to first inputs of which outputs of corresponding sub-registers are connected. A first input of the inverter is connected to the output of the first sub-register, a second input of the inverter is connected to a bus for supplying a value of the first m_1 base of the RNS. An output of the inverter is connected to second inputs of the adders of the group, outputs of which are connected to the output of the device via the OR element.