exposing the semiconductor biosensor into the solution.

8. The control method of the semiconductor biosensor as claimed in claim 6, characterized in that testing for conducting wires having said wire-errors comprises:

locating conducting wires with no sensible electric current according to the output signals sensed by the plurality of sense-amplifiers; and

regarding the conducting wires with no sensible current as conducting wires with anomalous high resistance or snapped conducting wires.

9. The semiconductor biosensor as claimed in claim 1, characterized in that each non-volatile memory type transistors comprises two input/output terminals and a control terminal, wherein one of the input/output terminals connected to another end of each conducting wire, and the other input/output terminal and the control terminal connected to each sense-amplifier.