

System for automatic notification of the appearance of elevated and fire-hazardous temperatures on a surface of a photovoltaic module of a solar power plant comprises a microcontroller unit, a transceiver module, and a junction box with bypass diodes fixed on a rear side of the photovoltaic module. Additionally, it comprises bypass diode temperature sensors and sensory lines in the form of a thin wire distributed over an area of rows of photovoltaic elements of the module shunted by corresponding bypass diodes. Thermal sensors and sensory lines are electrically connected to inputs of the microcontroller for monitoring the temperature of the bypass diodes and integrity of the sensory lines. A communication interface of the microcontroller is connected to the transceiver module.