

Reference system for deformation monitoring consists of a sealed housing containing an anchor element, within which interconnected functional units are located - a GNSS module, which is electrically and informationally connected to a controller capable of data processing and process control, and is interfaced with a logger capable of transmitting and recording measurements, as well as with a communication module capable of establishing communication. The logger is designed to receive data from the controller and store it in local memory. The communication module is electrically connected to an external antenna, which is designed to transmit recorded data to an external data storage unit. All functional components of the reference unit are electrically connected to the internal power supply system, to which an external backup power source is connected.