

Annotation

The theme of this work - "ultrasonic testing system of welds pipe joints" - the performance of the project was revised a large number of methods for monitoring welds. Carried system is the best technical solution in terms of cost of its creation, ease of operation and reliability. In the course of the project was developed detailing and assembly drawing device, circuit structural, functional diagram, algorithm and electrical schematic diagram on modern element base. Algorithms were recording the coordinates that allow you to create maps of defects and simplify their display. According to the method of calculated economic indicators, estimates and consideration to safety. The system also meets all European standards of protection against overloads and extreme temperatures.