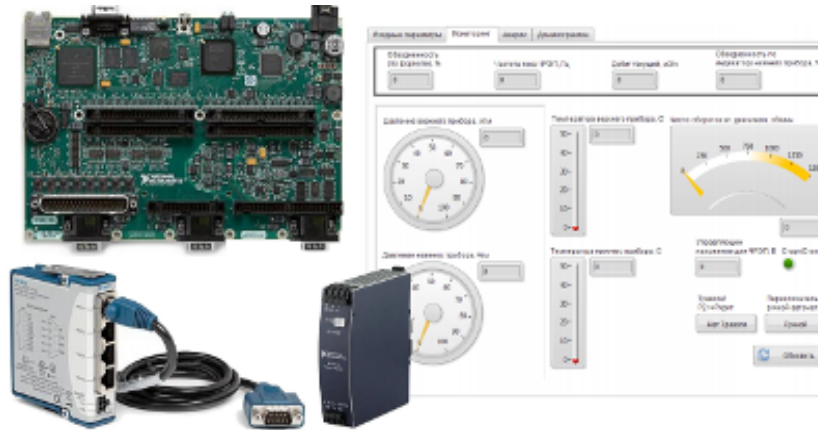


Oil Well Pump Control System Foton

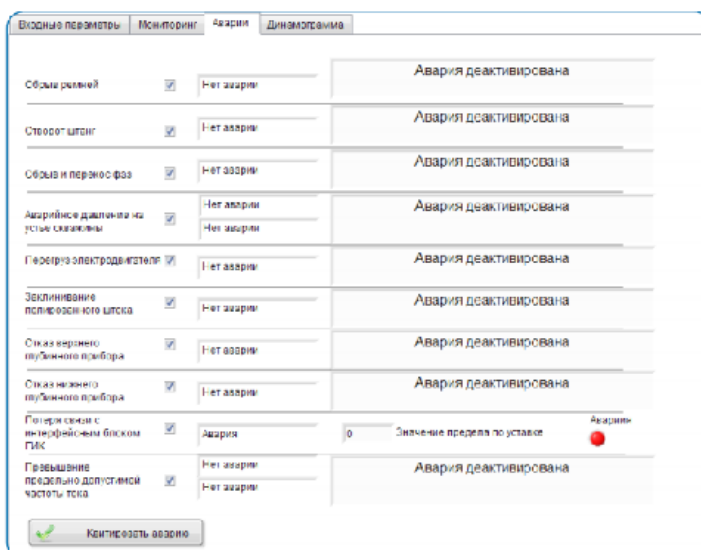


Overview

In order to increase production rate, a special system is designed for monitoring and intellectual control of downhole well pump with a specific algorithm of non-stationary pressure and water cut a depth of the well.

Features

- Long-term monitoring of wells
- Work on the logging cable during the descent/ascent and while appliance in a well
- The ability to control the motor's speed with VFD (variable frequency drive)
- Possibility to connect additional sensors of Hall, load, tubing head pressure and construction of surface card
- Additional digital, analog and relay inputs/outputs, possibility to connect the controller to any additional device through RS-232/485/422
- 10 types of malfunctions, and verification of connected sensors
- The ability to control downhole tools through the interface unit (without a computer)
- Possibility of battery life on a backup power source
- Simultaneous measurement and storage of non-volatile memory of all measurements
- Transmission of data to a computer for analysis and display through FTP
- Transfer of a data and parameters to the telemetry system via modern RS-232 or RS-485 interfaces
- Integration into the SCADA system



Hardware and Software

- Power supply 19-30 V, 8 W
- Real-Time controller, integrated FPGA, digital inputs/outputs and analog outputs
- Module with 4 RS-485 ports

For GUI (Graphical User Interface) monitoring from PC the following software is required:

- Windows XP, Vista, 7 or MacOS X 10.5 or later
- LabVIEW Run-Time Engine 11.0 or later
- Microsoft Silverlight 4 or later
- Internet Explorer 7 or later, Mozilla Firefox 14.0.1 or later

