

The  
AutoLog<sup>®</sup>  
Family  
presents



## AutoLog<sup>®</sup> Success Story



We've got it under control  
Sophisticated Control Technology

Oilwell control and automation system AutoLogAL20AN, Softgroup company, Ukraine, Lutsk



FF-AUTOMATION OY

Oilwell control and automation  
system AutoLog® AL20AN,  
Softgroup company, Ukraine, Lutsk



**FF-AUTOMATION OY**

**AutoLog® Success Story**



## Description

AutoLog programming controllers AL20AN are used in a control and automation system of 50 oilwells in Ukraine, which was performed by "Softgroup" company, FF-Automation's official system integrator.

### System provides:

Oil production improving.

Proper operation mode of pumping unit by establishing using local control of the underground units.

Pumping parameters optimizing gives following benefits:

12% less power consumption;

20% longer period between maintenance;

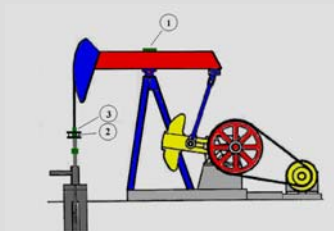
Oilpumps' lifetime increasing.





## System structure

- System consists of machinery and equipment controlled (oilwell head, pumps, motors, etc.);
- Sensor system (rod position, oil level, temperature, pressure, power meter, door alarms, etc.);
- Programming controllers (AutoLog® AL20AN) with GSM modems;
- Central server in a Control room;
- Communication system (common GSM network is used).



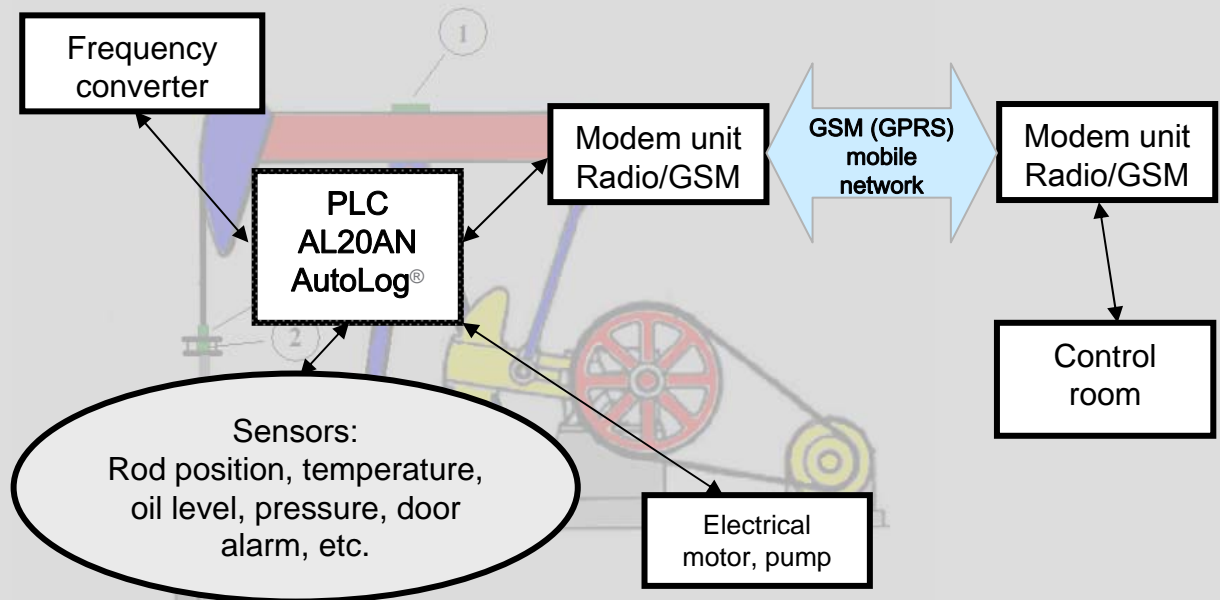
## System functionality

- Tension graphs, trends and other parameters showing on control room screens.
- Productivity, oilpump fill and machinery parameters definition.
- Equipment operational mode optimization.
- Machinery control according to optimal working modes.
- Continious oilwell parameters' analysis, data collection and results sending.
- Alarm sending and fault prognosis.



### Control system

AutoLog® 20AN is controlling oilwell station's parameters and improves oil production by optimizing operation modes of motors and pumps according to collected information and control room commands.



As a transmission media, common public GSM (GPRS) network is used.



## System operation

Control system sends a number of different parameters from sensors and receives commands to apply on equipment controlled.

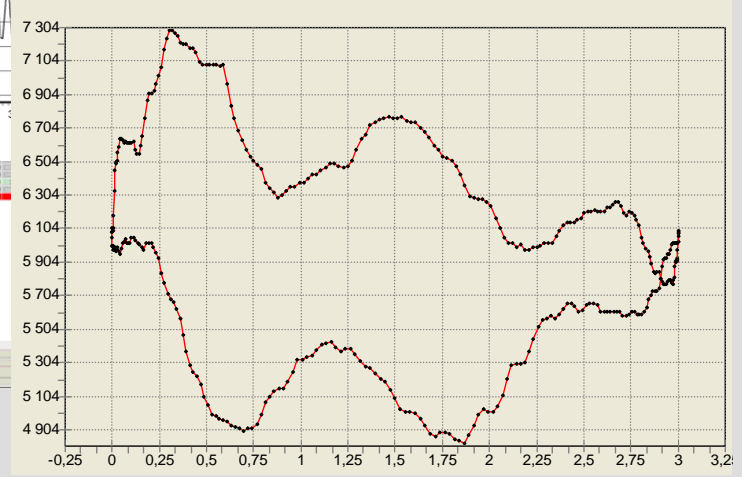
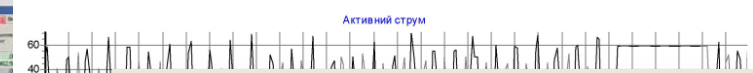
Decisions are made according to preprogrammed procedures or timetables as well as to manual commands from Control room operator.

Information from AutoLog® AL20AN may be viewed in the most suitable way to ease the operation.

Alarm views can be configured according to customer needs. Collected data could be stored for future analysis both in field unit and on central server.



Сенсор	Устройство	Статус
Сенсоры № 001	Датчик	Работает
Сенсоры № 002	Датчик	Работает
Сенсоры № 003	Датчик	Работает
Сенсоры № 004	Датчик	Работает
Сенсоры № 005	Датчик	Работает
Сенсоры № 006	Датчик	Работает
Сенсоры № 007	Датчик	Работает
Сенсоры № 008	Датчик	Работает
Сенсоры № 009	Датчик	Работает
Сенсоры № 010	Датчик	Работает
Сенсоры № 011	Датчик	Работает
Сенсоры № 012	Датчик	Работает
Сенсоры № 013	Датчик	Работает
Сенсоры № 014	Датчик	Работает
Сенсоры № 015	Датчик	Работает
Сенсоры № 016	Датчик	Работает
Сенсоры № 017	Датчик	Работает
Сенсоры № 018	Датчик	Работает
Сенсоры № 019	Датчик	Работает
Сенсоры № 020	Датчик	Работает

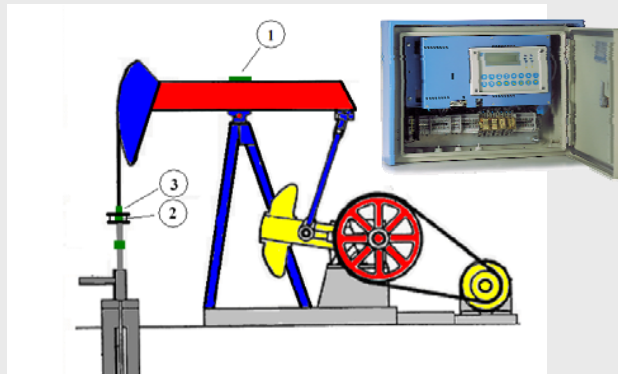


Oilwell control and automation  
system AutoLog® AL20AN,  
Softgroup company, Ukraine, Lutsk



FF-AUTOMATION OY

## AutoLog® Success Story



### AutoLog® AL20AN

The project includes installation, programming and integration AutoLog® controllers into existed control applications.

The customer chosed FF-Automation products as the Control System core and SoftGroup as a system integrator because of the good features of the offered system and the technical know-how to help designing the optimal telemetry system for the customer. FF-Automation has many references of similar AutoLog® projects.



For more information about  
FF-Automation and the  
AutoLog® range of control  
products and automation  
solutions, please open  
[www.ff-automation.com](http://www.ff-automation.com)



**FF-AUTOMATION OY**

*Head Office:*

Eräkuja 2, 01600 Vantaa, Finland

tel: +358 10 2190 500

fax: +358 3 5846711

e-mail: [info@ff-automation.com](mailto:info@ff-automation.com)

*Factory:*

Valkeakoski, Finland