

Functional Capabilities of the DRC Control Device for 3-Phase Drainage Pumps:

1. Fully automatic control of 2, 3, or 4 pumps.
2. Automatic maintenance of pressure differential in the controlled pipeline at a level not lower than the set nominal pressure.
3. Ability to manually control the system consisting of 2, 3, or 4 pumps.
4. Simultaneous regulation of the performance of all pump units in automatic mode.
5. Convenient ergonomic menu.
6. Setting the upper limit of the pressure differential.
7. Setting the lower limit of the pressure differential.
8. Logging of failures with the date, time, and type of fault, as well as the time of occurrence and acknowledgment.
9. Graphing the performance of pump units and measured pressure differential, with the ability to archive.
10. Automatic equalization of pump operating time.
11. Indication of operating and fault modes, as well as set and measured pressure.
12. Full electrical protection of the pump units' power drives, including:
 - Protection from overvoltage and undervoltage;
 - Protection from phase imbalance and phase failure;
 - Protection from leakage current to the body;
 - Protection from current overload;
 - Protection from short-circuit currents;
 - Protection from thermal overloads based on signals from built-in temperature sensors (WSK/PTC) in the motor windings.
13. Protection against dry running based on a signal from an external sensor.
14. Output of fault and pump operation signals to an external monitoring device (dry contact).
15. Automatic activation of a backup pump in case of a fault in one of the operating pumps.
16. Possibility of remote start of the station (dry contact or MODBUS).
17. Standby mode with the possibility of deactivation.
18. Remote control and monitoring via Ethernet IP interface.
19. Availability of 3 analog inputs (4-20 mA/0-10V) for further work with the PID controller.
20. Operation with 4-20 mA sensor signals (main and backup).
21. Operation with a pressure differential sensor (4-20 mA).
22. Selection of sensor type and rating in the menu.
23. Built-in weekly timer.
24. Control panel includes all necessary protective and switching power elements.

