

HOSPITAL MEDICAL GAS MONITORING SYSTEM

CENTRALIZED HOSPITAL MEDICAL GAS MONITORING

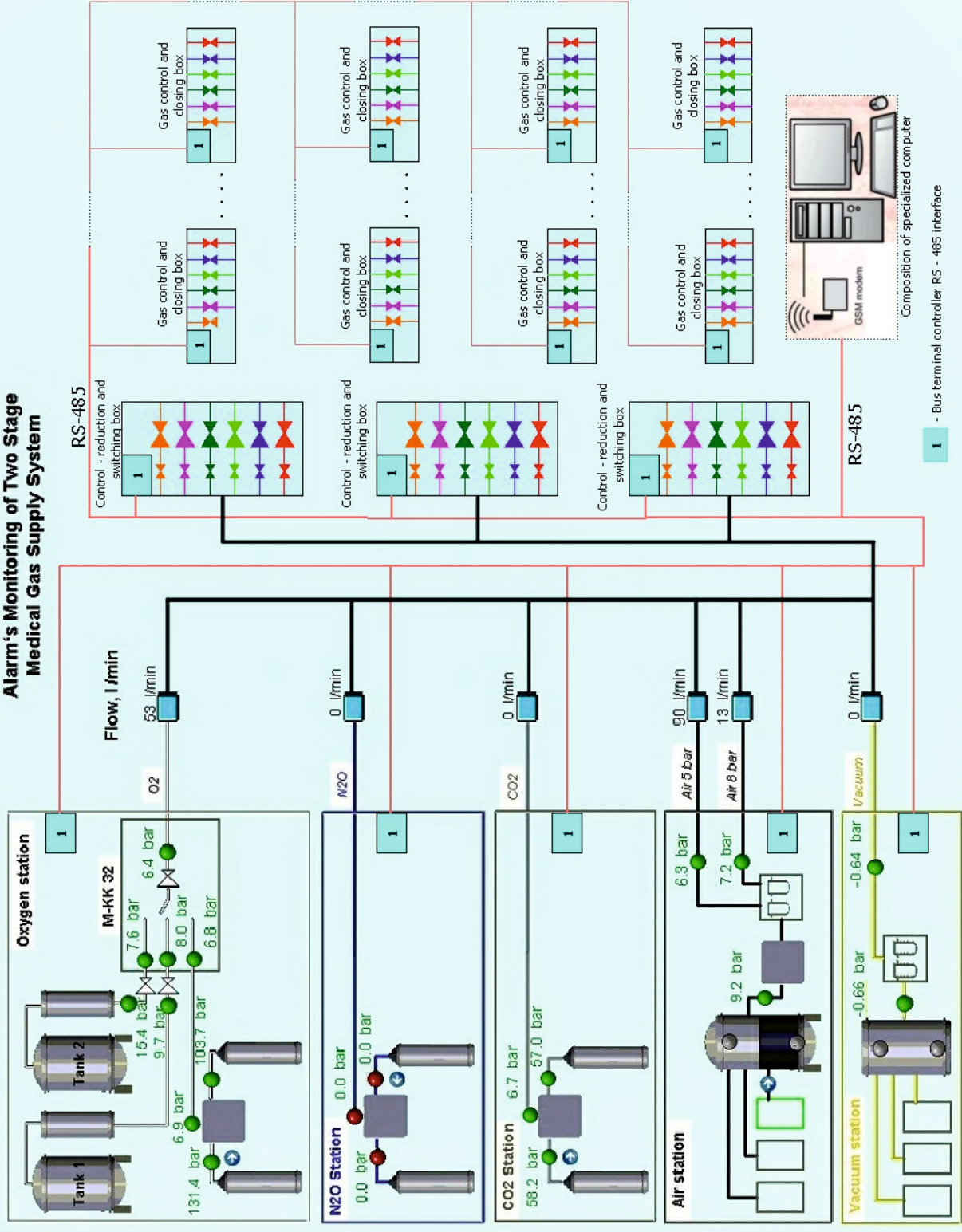
SYSTEM IS DESIGNED TO:

- **Control** the hospital medical gas system pressure in the gas sources by the pressure control closure points.
- **Control** supplied medical gas flows detecting possible gas leaks, while analyzing earlier periods of gas flow quantities.
- **Perform** consumed medical gas calculation for a day, a week, a year.
- **Under** the system given pressure and flow parameters signal to the central computer and the mobile communication system about impermissible deviations.
- **Analyze** the obtained information in the central computer about cause of fault alarm signals and their correction method.
- **Perform** the most important system's installation working time recording, notify about the equipment's servicing terms, register failures.

THE SYSTEM CONSISTS OF:

- Gas pressure and flow measurement with special modules.
- Analogic and digital modules which allows to process, convert and transmit to RS-485 interface or LAN. Modules can be integrated into devices or installed separately, depending in number of the control points.
- Three-wire system which allows all system interface modules to connect parallel or sequentially.
- Visual and sound alarm system, which informs about system status and emergencies.
- Special computer with RS 485 interfaces or LAN.
- Special software can be modified depending on the hospital's type and size of existing equipment.

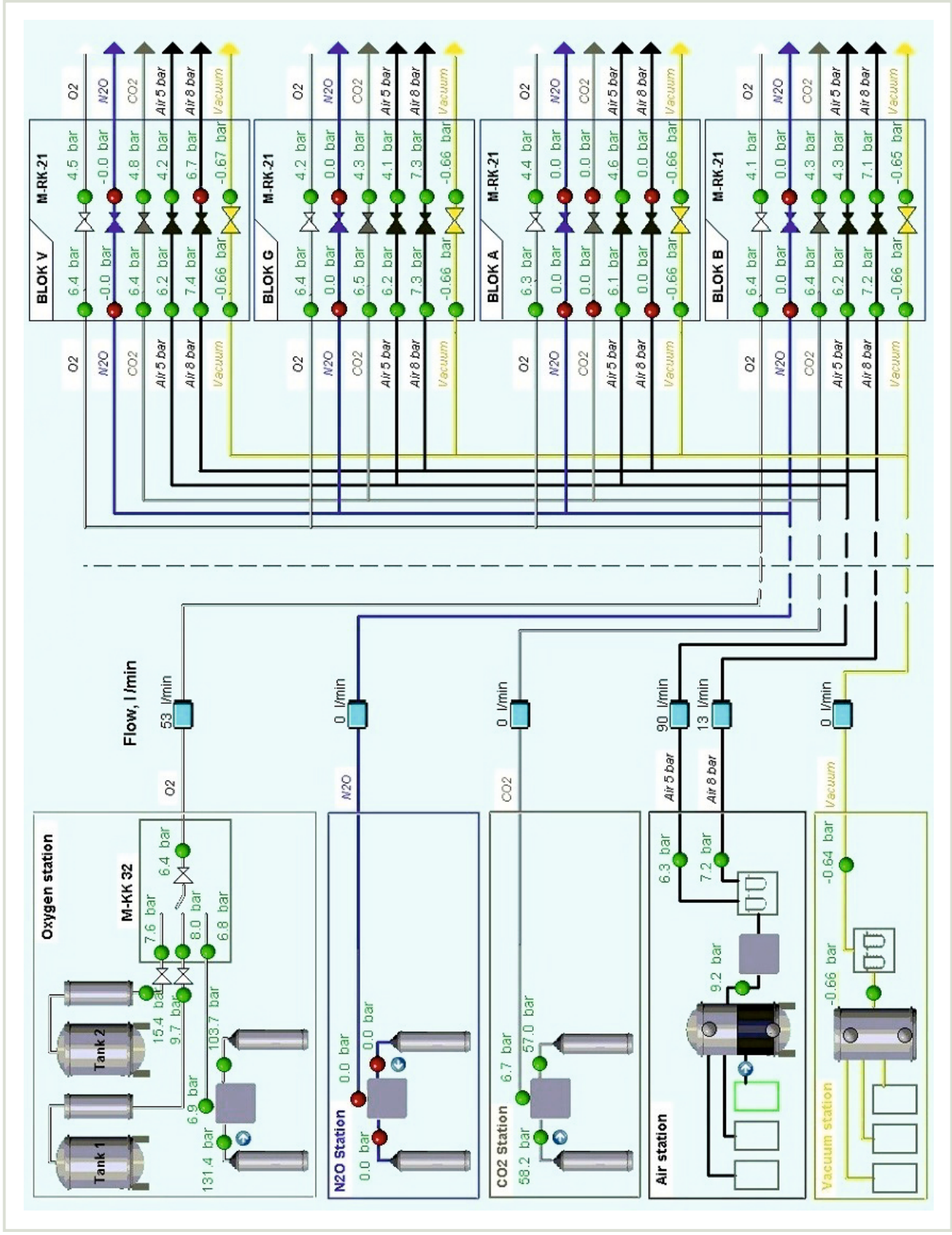
Alarm's Monitoring of Two Stage Medical Gas Supply System



Hospital medical gas monitoring system-functional scheme

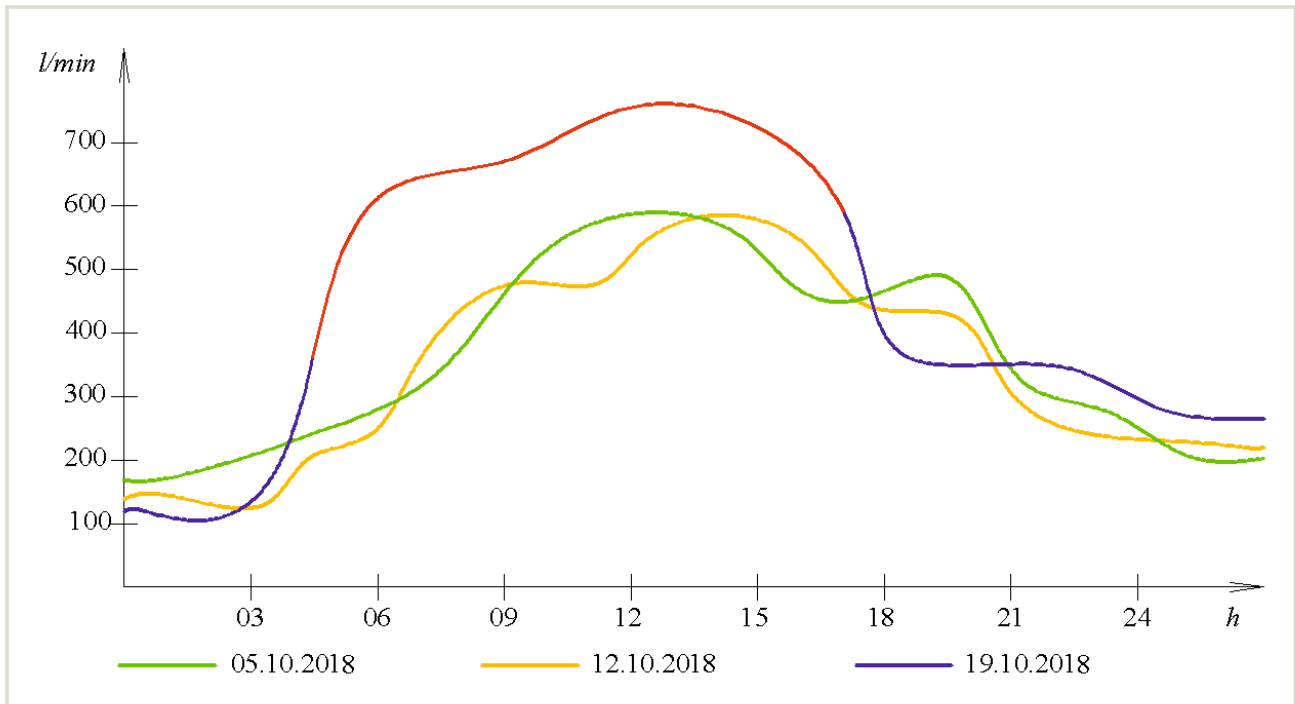
The number of control points in the monitoring system is not limited. When developing a monitoring project, it is necessary to control gas pressure in sources and control pressure in main pipelines.

Monitoring the pressure of gases entering the terminal devices through control disconnecting devices allows you to quickly identify and eliminate faults in the pipelines

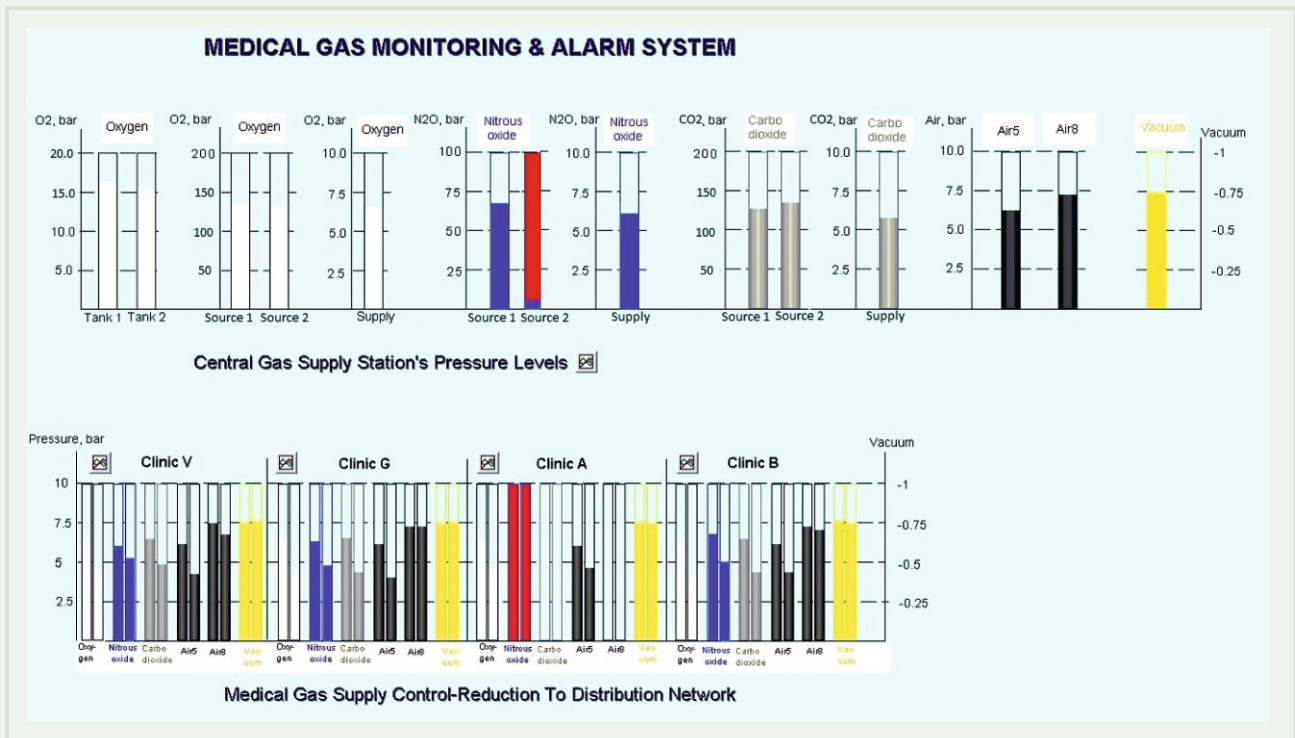


Medical gas pressure and flow drawing from working hospital

Red part of the flow chart 19.10.2018 is informing about appeared leakage in the system or sanctioned increased oxygen demand



Oxygen daily flows comparison chart



The main points of the gas pressure bar graphs