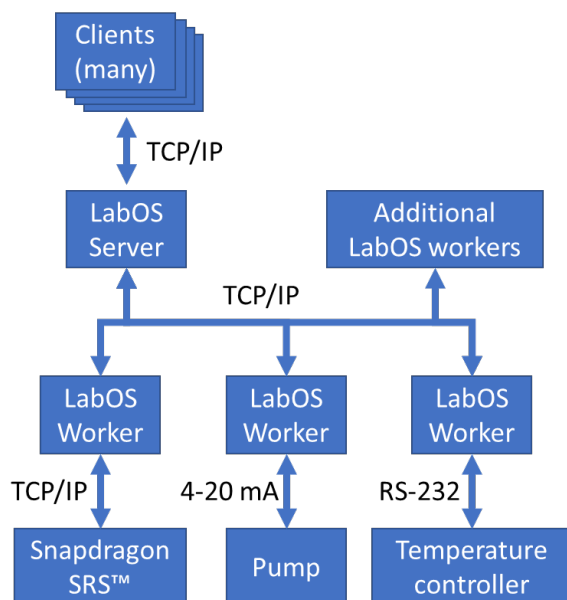


Snapdragon Chemistry LabOS™ Software

Data Sheet



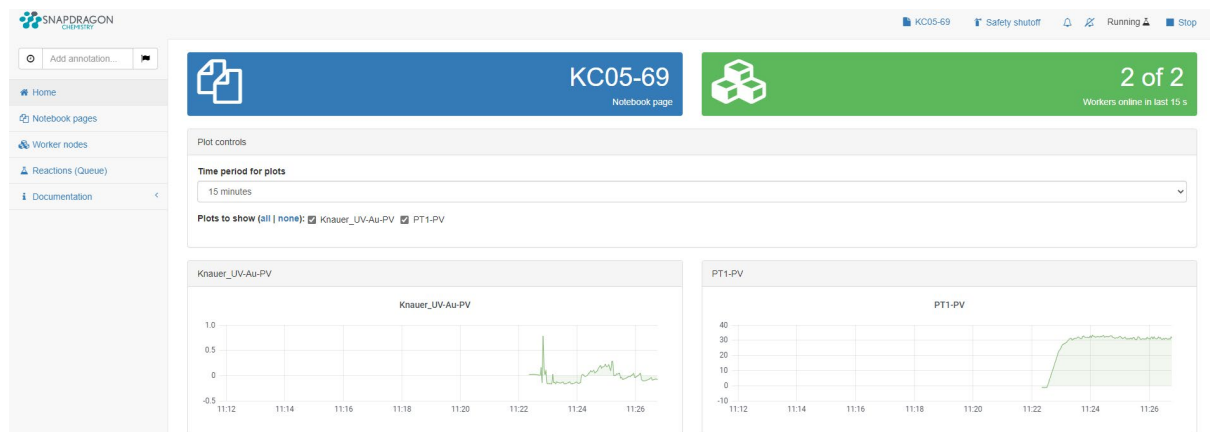
Snapdragon Chemistry's LabOS™ software allows researchers to collect data and control a wide range of scientific instruments through a single unified interface. LabOS™ grew out of a need for a simple system to control the wide range of equipment and sensors that are used in modern data-rich experimentation workflows. The architecture of the system is outlined below:



Specifications

Client interface	Brower-based. Multi-platform, desktop and mobile.
LabOS Server	Typically 16 GB RAM with SSD running Ubuntu Linux
LabOS Worker	Runs on Windows 10 or embedded devices
Example devices integrated with LabOS worker software	Flow meters, pumps, temperature controllers, fraction collectors, online LC (Snapdragon Sample Relay System™), DC Power supplies (electrochemistry, photochemistry)
Worker communication protocols	HTTP, Modbus TCP, Modbus RTU, RS-232, RS-485, 0-10 VDC, 0-20 mA, and others. Integration with Windows API/SDK using .NET. Others possible on request.
Safety features	Alert SMS message if values out of expected range. Automated reactor shutdown to safe state.
Automation features	Software allows users to queue up a series of conditions to evaluate. For each condition, an automation routine will execute. Integration with automation controllers for additional capability.
Self-optimizing reactor	Integration with the SNOBFIT optimization algorithm is available

Example screenshot



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