

Smart lab – networked for more safety

Handling and storing flammable hazardous materials in safety cabinets is part of the daily routine in many laboratories. Often, however, corresponding process flows and safety questions are managed in a way that is less than ideal because the respective storage situation has been approached on a purely ad hoc basis. In practice, even just searching for something such as the required solvent takes time and is counterproductive to optimal workflows in the laboratory.

In addition, digital transformation and increased requirements placed on process safety raise many new questions:

How will laboratories change as a result of digital transformation?

How can Industry 4.0 ideas be pursued rigorously in the laboratory with new innovations?

What options are there for reliably capturing process-relevant data?

How should the gathered data be processed?

DÜPERTHAL provides answers to these questions with the new Cabi2Net. The system revolutionises centralised control of work processes. With up-to-date data and intelligent networking, it helps to organise the value chain efficiently. Information, for example, on fill levels or faults in and at safety cabinets, can be called up on the Internet via a Web interface, independent of terminal devices. The system is scalable, with additional modules allowing the integration of numerous sensors and actuators.

Using Cabi2Net provides safe active storage of hazardous materials, while freeing up resources for research, development and production activities. Exploiting this potential leads to more stable and leaner processes – entirely in keeping with the lean-lab concept.

Additional features of the Cabi2Net solution combined with safety cabinets from DÜPERTHAL:

Intelligent hardware and software, with network interfaces for connecting to LIMS and ERP

Automatic inventory management and ordering of missing solvents

Real-time electronic logging with all process-relevant information

Increased transparency by documenting consumption per user and project

Digital and analogue inputs for evaluating sensors for level monitoring, temperature control, flow rate, among many others

Digital outputs for switching signal lamps, acoustic warning devices, release or locking mechanisms

Touch screens, visualization via Web browser or display on a PC monitor, as well as individual

adjustment of system configuration thanks to different user levels

Digitally stored safety data sheets and instructions, accessible at any time

The Cabi2Net networked solution from DÜPERTHAL ensures increased safety and profitability and can even be integrated into general building automation.

Visit the DÜPERTHAL exhibition stand to see how the workplace is undergoing a digital transformation and how the targeted use of digital systems combined with sensors can help you to design your processes more efficiently.



DUEPERTHAL_COL1710_DigitalTransf_02_MR.jpg



SysSolution_LABview_02.jpg



LevelSensor_CapaDigi_det01.jpg