

# Contaminate-free disinfectant dispenser

## A measure against hospital germs

Every year, 500,000 people are infected with multiresistant germs in hospitals in Germany alone. 40,000 of these infections are lethal. The simple, low-budget piston-pump technology developed by Hahn-Schickard offers a new way for the dispensing of cleaning agents and disinfectants. The patented pumping concept enables a contaminate-free dispensing while keeping the handling of the fluid simple.

The propagation of hospital germs represents a major issue in Germany. On one hand, it is caused by an infrequent use of disinfectant dispensers. On the other hand however, the disinfectant dispensers themselves are often contaminated and may even act as a catalyst for germ transmission. A novel, touchless disinfectant dispenser developed at Hahn-Schickard prevents the spreading of germs through a contaminate-free fluid flow and encourages its frequent use via a user friendly-design.

This is achieved through a touchless and wear-free actuation unit that can be manufactured for less than 4.00 €. The actuation contains no moving parts and due to its simple setup, it is highly robust without any attrition.

The pumping unit itself is designed as a disposable unit and



### Benefits of the dispenser

- Contaminate-free dispensing
- Disposable pump element
- Touchless actuation
- Fast dispensing
- Low energy consumption
- No cleaning required
- Very robust

therefore suitable for a contaminate-free dispensing of disinfectants, soaps or lotions. It can be directly attached to the disinfectant-bottle after filling. Thus, no additional transfer of the cleaning agent is required by the user, preventing germ transmission and dripping. A reliable optical hand recognition of the dispenser further ensures a contamination free use.

Because of a low friction design of the pump, very little energy is required for the pumping process, thus enabling long battery life-

### Field of application

- Hospitals
- Care homes
- GPs + health care units
- Public place
- Restaurants
- Retail stores

times and a transfer of large quantities of soap per battery charge (typically 42 kg soap with 2 C-type batteries). Compared to peristaltic pumps, this pump works completely silent and is superior in terms of flow velocity. In addition to that, the disinfectant dispenser offers a very slim design, which allows for a compact placement of multiple units. Besides the application in hospitals the dispenser technology can also be used for lubricants or detergents and even food and beverages.