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## The clock is ticking even in a simulated emergency

# Realistic exercise for paramedics with LED shock room clock

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In an emergency, every second counts. The students of the vocational school for emergency paramedics and the participants of the emergency simulation classes at Simparc Würzburg also learn this. The further education centre trains and simulates medical emergencies as realistically as possible. This includes a large, highly visible and easy-to-use shock room clock in the emergency room. System electronics provider Microsyst supplied the large-scale LED display solution.

### Assistance for time-coordinated emergency care

With a buzzer, the clock starts and changes colour when time is exceeded. Particularly with critical patients, competent and safe patient care is ensured, among other things, by good time management. To ensure that no one involved in the care of the patient loses track of time and that the emergency team always works in a coordinated manner, Simparc trains with the shock room clock at the interface between the shock room or emergency room and the rescue service.

### Increased patient and care safety

"The large-format shock room clock, equipped with luminous colours, helps all training participants not to lose sight of the overall goal of care. Each team member has the possibility to point out the time in order to dynamically adapt processes to the emergency," explains Simparc emergency paramedic Jörg Holländer. In situations such as cardiopulmonary resuscitation, the shock room clock also runs in order to comply with the specified times of the medical-professional guidelines. Another training application concerns its use in the context of crew resource management, where short agreements have to be made and work assignments have to be distributed at defined intervals ("10-for-10 principle"). "In training and education, the shock room clock serves as an indispensable instrument for structuring when time matters," says Holländer, "and thus makes a significant contribution to increasing patient safety."

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## The latest LED technology for demanding use

The built-in LED technology is characterised by excellent luminosity and rich contrast - so the displays remain easy to read even under difficult conditions. A special housing without indentations as well as surfaces resistant to cleaning agents characterise the system for hygienically sensitive areas. An integrated quartz clock with stopwatch function provides output accurate to the second. The shock room algorithm can be adapted according to the ABCD scheme of first aid and the primary survey times can be reduced. The buzzer function is created by Microsyst in a customisable way. The variable line height between 50 and 120 millimetres as well as seven-colour LED technology enable a wide visualisation spectrum. Certain colours can be defined for specific event messages (e.g. red for warnings, white for information, etc.). A separate visual and acoustic alarm function can also be set individually.

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## **About microSYST Systemelectronic GmbH**

*Founded in 1985, the company based in Weiden i. d. Opf. has been developing, manufacturing and selling LED display systems for 30 years. The comprehensive know-how in LED technology goes back to the early in-house developments. This pronounced pioneering spirit is still deeply rooted in the company today. With future-oriented thinking and environmental awareness, microSYST will continue to dedicate itself to LED technology in the future under the following principles*

- Know-how right from the start*
- Individual development and production*
- Adapted systems with unique optics*
- Regionally sustainable and efficient*