

Short manual for the
V450-007-008 Baby-Transponder | 2.17 | for SCC 5.0
F6.8.8

General functional description

The baby transponder is used together with the baby module of the SCC 5.0 software. The SCC 5.0 Baby module has been developed for securing newborns in nursery stations.

The newborn is equipped with a baby transponder. With the help of the SCC 5.0 software and a so-called pairing station (LF), a mother and baby transponder are linked to form a family so that only the mother with her baby can leave the secure area without an alarm.

The housing of the baby transponder is biocompatible.

Tasks of the mother transponder

- **Permitted detection area:** If the mother and baby transponders pass through a **"allowed"** detection area, the baby is protected by the mother and no alarm is triggered. However, if a baby transponder passes alone through an **"allowed"** detection zone, this triggers a **"baby alone"** alarm. A nurse transponder can also follow the baby transponder through the permitted detection zone without triggering an alarm.
- **Forbidden detection area:** It is possible to create forbidden detection areas in which mother and baby together trigger a **"runaway alarm"** and alarm suppression is only possible with a nurse transponder.
- **Diaper-changing table:** On the changing table, the baby transponder can be removed in the presence of the mother or nurse transponder without triggering an

alarm. If the baby stays alone on the changing table, a "baby alone" alarm is triggered.

- **Removal monitoring:** The baby transponder is integrated with a capacitive sensor that permanently monitors skin contact with the baby. If the baby transponder is not removed in the presence of a mother or nursing transponder, there is a "baby transponder discarded" alarm. Area-wide HF monitoring must be ensured for the baby transponder's removal monitoring function.

Mounting

The baby transponder has a biocompatible silicone strap which is placed around the baby's leg and fixed with the help of the transponder's clamp buckle. It is important to ensure skin contact between the baby and the baby transponder so that the monitoring task (pickup alarm) of the capacitive sensor is guaranteed.

Acknowledgement

Alarms triggered by a baby transponder can only be acknowledged via the user interface of the SCC5.0.

LED signals of the baby transponder

The Baby Transponder is equipped with a red LED that shines through the housing.

LED flashes every 1.2 sec.

Transponder is in a detection

area

LED flashes briefly after several seconds
transponder after set interval

Heartbeat notification of the

LED flickers every 2.0 sec.

Transponder has no connection to

HFM

Battery charge

The Baby Transponder has a rechargeable battery. A full charge can take up to 2.5 hours. The special charging station (V100-070) of the baby transponder is used for

charging. This can be used to charge up to ten transponders simultaneously. The battery charging status is indicated on the charging station by a two-color LED.

No LED lights up: no transponder detected on charging station

Orange LED lights up: Transponder battery is being charged

Green LED lights up: Battery is fully charged

Orange LED flashing: Short circuit between charging contacts

The battery low notification is transmitted with each transmission in an LF field when the battery capacity falls below 15%. When the battery status is low, this is indicated by the SCC5.0.

If the battery capacity falls below 5%, the baby transponder switches off.

Read out data

Reading out the version and battery status is possible to the Raphael check.

The mother transponder ID can be set using the LF module in programming mode.

Cleaning

The transponders can be cleaned with a commercial spray disinfection.

The silicone strap is replaced as soon as the transponder is assigned to a new baby.