

T800, the Telemetry System for Ambulant Measurement of Fetal Heart Rate and Uterine Activity Using Leadless Transducers.



**Features of T800:**

- Leadless Transducers, no cables at the Patient.
- Ambulatory measurement within a good range.
- Optimal Freedom of Movement to the Patient.
- Safety in Presence of Water.
- No Controls, easy Handling.
- Rechargeable Batteries.
- Automatic Battery Charging from Storage Location.

## T800

The Rimkus T800 telemetry system is designed for ambulatory monitoring of fetal heart rate and uterine activity during pregnancy and delivery. The key feature of the T800 is that all components for measuring and transmission of data are placed inside the watertight transducers. Due to their small size and weight the mobile transducers can be carried easily. The range depends on the local conditions, and can be up to 100 meters. The transmission inside the hospital is quite reliable, but exact information on the range of a telemetry system can only be given by a field test. When the transducers are under water, the range reduces but is still a few meters.

All signals are transmitted digitally, which makes the monitoring safe against external influences. The transmitting antennas are inside the transducer housings. The transmitted energy is small enough to avoid any influence to the patient.

There are no controls at the transducers or the receiver unit.

## The Transducer Units T800U and T800T

The watertight transducers of the T800 carry all components like sensors, electronic modules and RF-transmitter but no connecting cables. The transducers are placed at the patient in the same manner as the standard transducers but the measurement even in water is enabled. The power supply comes from rechargeable Li-Ion batteries, which are automatically recharged when the transducer is placed in the storing field of the receiver unit.

transmitting its signals over a short range to the Ultrasound-transducer. Here the signals are combined with the other information and then transmitted over the long range to the receiver.

## The Receiver Unit T800E

The receiver unit is a small independent Module, which can be placed on top of the Fetal Monitor as well as in a compartment of a trolley. When connected to a Fetal Monitor of Corometrics T800 allows automatic use of the ambulatory measurement.

At the front panel the receiver includes two charging and storing fields for the transducer units. When in this place, the batteries of the transducers are recharged automatically and lamps indicate the status of charging. From a fully charged battery the transmitter can operate about 6 hours. When the transducers are taken out of the charging place they are switched on automatically and the receiver indicates the status of batteries and the strengths of the incoming RF-signal.

During operation the battery capacity is monitored; in case of a weak battery an indicator lights on the receiver for warning.

A Gainflex Antenna is used with the receiver as standard. In case there is a need for solutions to increase the range special antennas or antenna systems can be connected on request. When placed in a trolley a separate antenna can be installed.

signals to the interface of the Fetal Monitor. When the transducers are in use the monitor switches automatically from stationary to telemetry mode. If the transmission goes out of range the signals are switched off until normal conditions return. Just apply the transducers, all other handling is done by the telemetry system T800.

## Technical Data

### Transducer Units

Power supply: 4V, Li-Ion  
Time of Operation: ca. 8h  
Modulation: FSK  
Protection against dust: IP47  
and water

### T800U, Ultrasound Transducer

Measurement: pulsed Ultrasound Doppler  
RF-Transmitter: 433Mhz, 10mW  
Antenna: Helix Antenna  
Dimensions: Ø75x25mm  
Weight: 119g

### T800T, TOCO Transducer

Measurement: mechanical metering  
Transmitter: 11kHz  
Antenna: Ferrite Antenna  
Transmission: digital  
Dimensions: Ø75x25mm  
Weight: 100g

### T800E, Receiver Unit

Power supply: 230V /15VA  
RF Sensitivity.: <0,3uV  
Antenna: Gainflex Antenna  
Charging time: 3h max.  
Outputs: Signals to CTG  
Dimensions: 230x205x90mm  
Weight: 1,2kg  
CE 0366

## Your Sales Partner:

T8PCE\_0803

Technical data subject to change without notice.

The TOCO-Transducer is

The receiver T800E connects its