

HealthLab Tcore™* radio module TCFU-24 LE



Technical Data

Designation

HealthLab ANT+ Radio Module
TCFU-24
(ANT+ / Bluetooth Radio Module)

Power Supply

1 x 3V button cell CR2032 (AA0045)

Data Collection

Data Tcore™ Temperature Sensor:
Measuring Range: -1 ... +50 °C
Measuring Accuracy: +/- 0,1 °C

Digital Interfaces

Bluetooth 4.0 LE (LE - Variant)
ANT+ Protocol (ANT+ - Variant)
Radio Range: 3 m

Climatic Conditions

according to DIN EN 60204-1 (10-2014)

Ambient Temperature

Operation: -20 ... +55 °C
Transport / Storage: -25 ... +60 °C

Humidity / Altitude

20 ... 90 % r.F. (without condensation)
up to 8.000 m

Dimensions

W / H / D: ca. 20 x 30 x 10 mm
Weight: ca. 7,7 g (without Battery)
ca. 10,5 g (with Battery)

In the context of measurements with the psycho physiological monitoring system HealthLab, the Tcore™ ANT+ radio module TCFU-24 is used to capture the data measured with a Tcore™ temperature sensor, e.g. HealthLab TTC-05, and link them to a HealthLab master, e.g., a wireless LAN (Bluetooth LE / ANT+ protocol), e.g. HFM-04 ANT+. The TCFU-24 allows a significant increase in the mobility of the HealthLab monitoring system due to its small size and minimal power consumption.

The TCFU-24 ANT+ Tcore™ radio module is activated by plugging the sensor (e.g., TTC-05 Tcore™ temperature sensor). Since sensor, interrogations are usually carried out once per minute, the first data transfer may have to be waited for up to one minute. The radio interfaces of the module are active with the sensor connected, but the Bluetooth interface can be switched off in the satellite configuration (for details, see software description Heally4). If the radio range is exceeded, the connection between the sensor module and the sensor remains active for a further 45 seconds. The module is switched off by staking out the temperature sensor (even with cable breakage) or at measured temperatures below -10 ° C.

Further information you will find on our homepage:

- Hardware: Master HFM-01 (HFM-01.pdf) → www.koralewski.de
- Software: Heally Control (Heally5_en.pdf) → <https://secure.turboj.de/documents>

* Tcore™ is a trademark of Drägerwerk AG & Co. KGaA

Order Information:	Part no.
TCFU-24 Tcore™ Radio Module ANT+ :	E1957
Accessories:	
TTC-05 Tcore™ Temperature Sensor:	E1959
Disposal non-invasive core body temperature sensor	
TTC-08 Tcore™ Temperature Sensor:	E1967
Multi times non-invasive body core temperature sensor	
Battery 3 V 210 mAh (CR2032)	AA0045