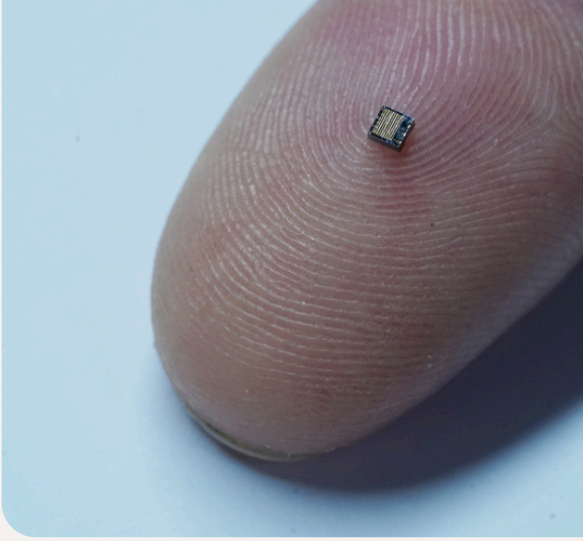

neuranics

Pioneering Magnetic Solutions

TMR Development Kit

Neuranics is excited to offer our heart rate monitor development kit to companies interested in testing our V2 sensors firsthand. Available under NDA, this kit showcases our sensors' picoTesla-level magnetic field detection, using heart signals as an example. Unlike existing lab-based systems, we are pioneering real-world solutions.

The kit captures heart signals from a single point of contact, even through thin clothing, detecting detailed magnetic field signals that offer new insights for fitness devices and 24/7 cardiac monitoring.

How it Works

The magnetic sensor development kit should be strapped across the chest, positioned near the heart. Connect the sensor to a nearby mobile device or PC via Bluetooth. For best results, the user should remain still while the heart pulse waveform is displayed.

Mobile App & Desktop Software

The Android application receives signals from the magnetic sensor via Bluetooth, displaying the heart signal in real time. Signals can be saved as CSV files, replayed within the app, or downloaded for analysis. The x- and y-axes adjust dynamically based on signal size.

What's Included:

- Casing with advanced **V2 TMR sensor** & electronics
- **Two additional V2 sensors** (can be tested separately under lab conditions)
- **Expert support:** Up to 20 hours assistance from Neuranics engineers
- Small rechargeable **battery**
- Adjustable velcro chest **strap**
- USB charging & connection **cables**
- Comprehensive **resources** on **USB stick,** including: **user manual**, Android **app** (customisable under NRE), **PC software**, **schematics** of front-end electronics, **PCB layout files**

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info@neuranics.com
www.neuranics.com