

gSKIN[®] BodyTemp Patch

Description

The gSKIN[®] BodyTemp Patch is a tool for continuous, non-invasive and mobile body temperature measurements. It is a complete standalone logging system with integrated processing unit, data storage and wireless module. Measurement and download operations are performed via Bluetooth using the provided Android application. Multiple patches can be operated with the same smartphone, allowing for in-depth thermo-physiological investigations on different body parts. The gSKIN[®] BodyTemp Patch must not be used for diagnostic purposes.

Application

- Investigation of thermoregulation
- Recording of circadian temperature cycle
- Physiological event detection
- Patient monitoring
- Algorithm development for wearables
- Research



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Product Name	gSKIN[®] BodyTemp Patch		
Article Number	A-165139		
gSKIN [®] BodyTemp Patch includes	1 gSKIN [®] BodyTemp Patch 2 Rechargeable lithium-ion coin cells type LIR2032 20 Sensor mounting foams 1 Download link for the BodyTemp Patch smartphone application		
Technical Data			
Structure	The patch consists of a reusable sensor core and a disposable mounting foam. The mounting foams are lined with medical adhesive. The battery is removable and must be charged externally.		
Dimensions including foam patch and battery (l x w x h) [mm x mm x mm]	58 x 28 x 7		
Mass including battery [g]	11		
Power supply	Rechargeable Li-ion battery type LIR2023		
Minimum (typical) Battery life [days]	> 3 (5)		
Data storage [days]	> 4		
Data acquisition channels	Option A: 2 heat flux channels, 2 skin temperature channels, X,Y,Z acceleration Option B: 1 skin temperature channel, 1 body temperature channel, X,Y,Z acceleration		
Sampling rate [Hz]	1		
Skin temperature accuracy [°C]	± 0.1		
Body temperature accuracy under rest [°C]	± 0.2 (chest)	± 0.3 (arm)	± 0.3 (wrist)
Calibration	Hardware calibration is performed at the factory. Physiological calibration on the measurement subject is done before each measurement.		
Special features	- Android application - Live display of current skin and body temperature (via app)		

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