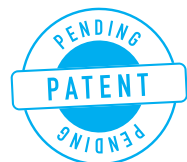




e.print[®]
PRINTED ELECTRONICS



ABOUT E-PRINT TECHNOLOGY



E-print® technology consists on printing electronic circuits using high-end Heat-Transfers technology.

E-print® adds intelligence and functionality onto textile applications by the easiest way, using heat-transfers.

Introducing conductivity on technical heat-transfers, managing all the engineering not only on raw-materials, printing technology but also electronics, software and hardware to achieve innovative applications.

All developments use mainly in house capabilities being an important factor for custom made solutions.

TECHNOLOGICAL APPLICATIONS

- Active Heating System
- Conductive lines
- Touch keyboards
- Capacitive sensors for different purposes (temperature, humidity, heartbeats & others)
- Antennas
- Inductors
- Monitoring & Alarms

ACTIVE HEATING SYSTEM



Resistive principle is the most efficient way to produce heat with electricity.

Regular surfaces dissipate more heat per square inch in a very uniform pattern, being a better and reliable approach than the traditional solutions based on stitching or embroidery with conductive yarns.

USE EXAMPLES

- . Winter Sports
- . Freeze Work
- . Nautical & Fishing
- . Motor Sports
- . Military
- . Medical



ACTIVE HEATING SYSTEM

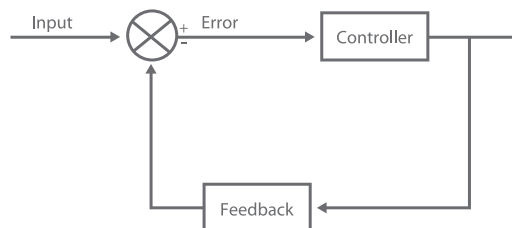
DEVELOPMENT OF TAILORED SYSTEMS



User manages the system with a smartphone.
System verified under european standards by **iep**.

SYSTEM ARCHITECTURE

- Electronic control unit
- Bluetooth communication
- Lithium battery
- Heat bands and sensors
- Mobile application
- Alarm Management



TECHNICAL SPECIFICATIONS

- Less than 0.1mm thickness with flexibility
- Interface for two heat bands and sensors
- Two operating positions Hi 42°C/Normal 38°C, manually selected without smartphone
- Fine comfort temperature adjust and status reading with mobile application
- 5 alarms configurable, body temp low/high, impact with localization of the person
- Autonomy, up to 4 hour, depending on the use
- Up to 7w power per heating surface
- Lithium battery 2200mA/h

ADVANTAGES

- ✓ Good autonomy and energy density per volume
- ✓ Fine adjustment with mobile application
- ✓ Monitoring and 5 alarms configuration with app
- ✓ Closed loop control for comfort and optimum battery performance
- ✓ Good autonomy and energy density per volume
- ✓ Rechargeable power source

OTHER APPLICATIONS

i-Touch Glove

Capacitive heat transfer
to operate on tactile screens.



Smart Pocket

Functional pocket with
keyboard and active lighting.





POWERED BY
MANIA4®
BUSINESS & TECHNOLOGY

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