CelsiusPerformance is an ingestible pill that continuously monitors, records, and wirelessly transmits core body temperature for non-medical use cases. The pill has its own memory which means the subject is not restricted by the usual constraints of monitor wearing. The system provides a highly accurate and continuous core temperature monitoring without any catheter or wire connection.
The solution is designed to combine comfort, agility of use and ensure full data collection. A memory is embedded into the capsule to ensure long term monitoring whatever the conditions. Whether during or after the monitoring session, the data are automatically recovered by the monitor once in the communication range of the capsule.

98.6°F – 37°C
Normal core body temperature

+ 0.8°C RISE
+ 25 bpm in submax heart rate
for a 0.8°C rise in core temperature
(Matthews et al., 2010)

1500
Annual death in USA
due to hyperthermia
(Brown et al., 2012)

Accurate and reliable core temperature monitoring is critical for any subject facing hot/cold environments or extreme physical efforts. Scientific publications indicate that external measurement methods such as axillary, temporal or tympanic ones are not accurate in assessing core body temperature in extreme conditions. The e-Celsius Performance solution allows to assess thermoregulation effectiveness, optimize cooling methods or individualize acclimation process.

The solution perfectly meets the need to measure and describe the circadian rhythmicity of the subject. In this way, e-Celsius Performance may be used for sleep analysis or in order to prevent the effects of jet lag on performance.

TECHNICAL FEATURES
- Size of the pill: 17.7mm x 8.9 mm
- Temperature accuracy: ±0.2°C
- Sampling frequency: may be set at your convenience
- Internal memory: up to 2000 data
- Operational duration: 20 days
- Communication range: 1m
- CE and FCC compliant