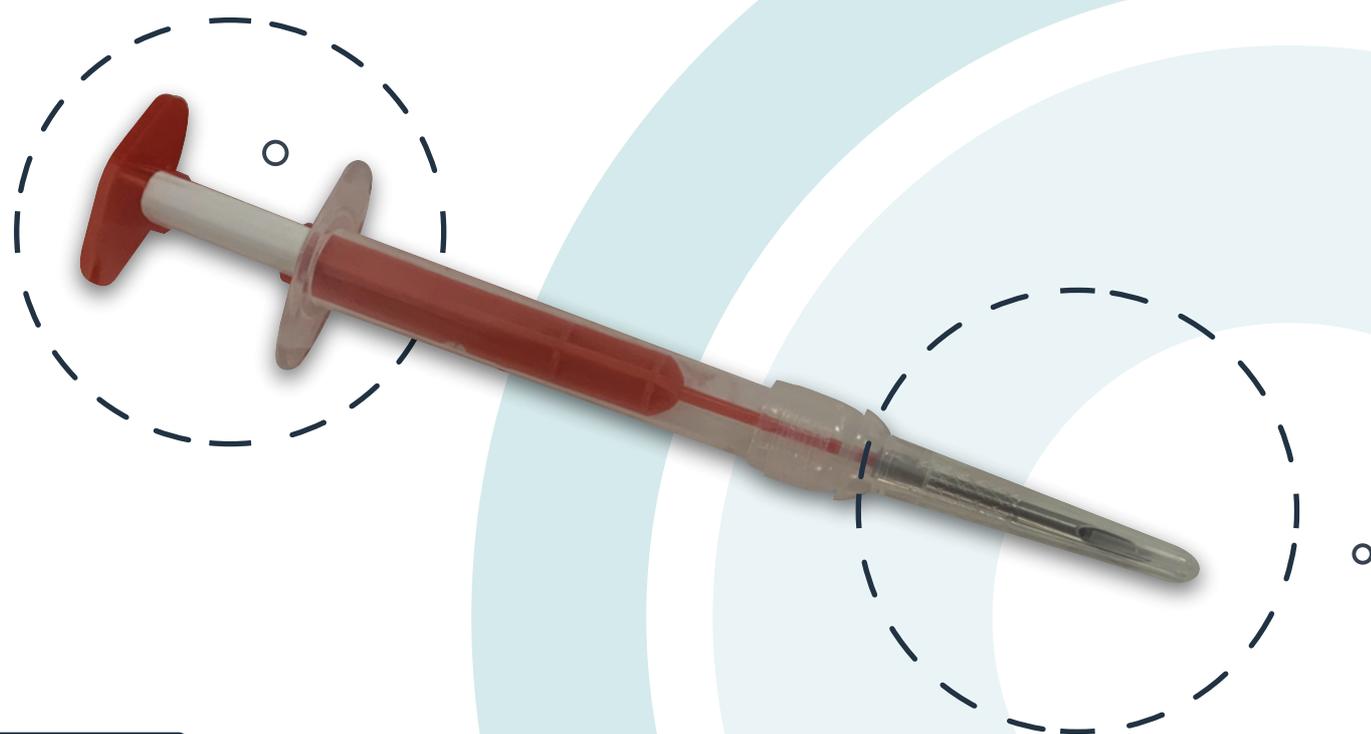




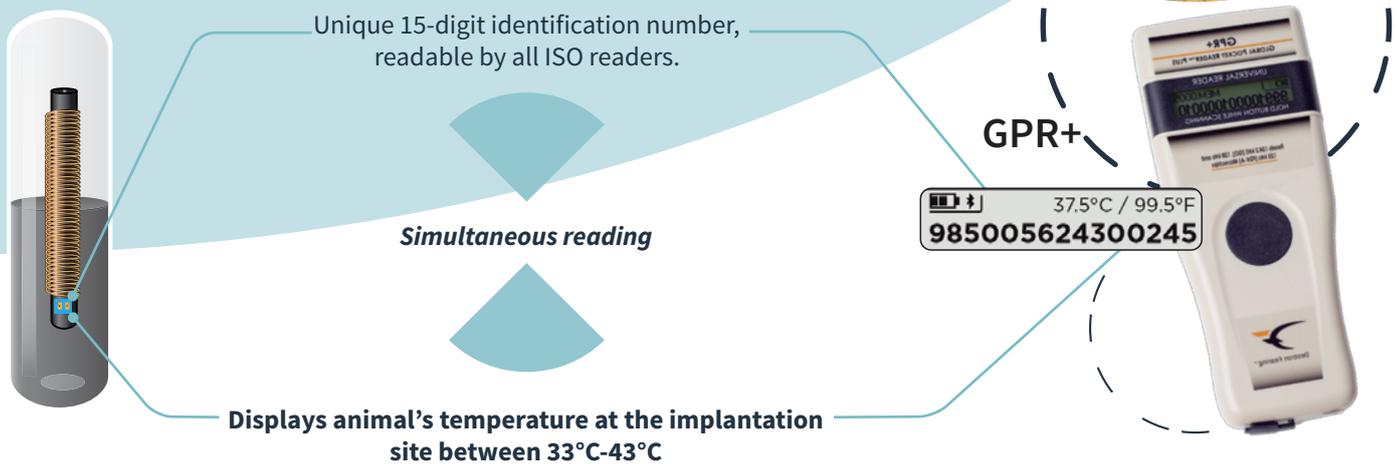
Thermochip

Much more than just identification



Thermochip: Intelligent Identification for temperature monitoring

Thermochip microchips are tiny passive radio-frequency identification devices (RFID), operating as any other identification microchip. The Thermochip microchip is compliant with ISO standards, certified by International Committee for Animal Recording AND contains an integrated temperature biosensor.



Temperature trends are more useful than one off readings

Vets have been using single rectal thermometry as the gold standard¹. However, rectal temperature, if taken frequently enough is very variable²! Just as in human health³, a horse's 'normal' temperature is a range, and varies according to:



Sex²



Size²



Age²



Level of activity⁴

e.g. can be used after exercise⁴



Foaling

e.g. lower before parturition⁶



Level of stress⁵

References:

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- Auclair-Ronzaud J, Benoist S, Dubois C, Frejaville M, Jousset T, Jaffrézic F, Wimmel L, Chavatte-Palmer P. No-Contact Microchip Monitoring of Body Temperature in Yearling Horses. *J Equine Vet Sci*. 2020 Mar;86:102892. doi: 10.1016/j.jevs.2019.102892. Epub 2019 Dec 14. PMID: 32067664.
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- Kang, H., Zsoldos, R.R., Woldeyohannes, S.M., Gaughan, J.B. and Sole Guitart, A., 2020. The use of percutaneous thermal sensing microchips for body temperature measurements in horses prior to, during and after treadmill exercise. *Animals*, 10(12), p.2274.
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- Auclair-Ronzaud J, Jousset T, Dubois C, Wimmel L, Jaffrézic F, Chavatte-Palmer P. No-contact microchip measurements of body temperature and behavioural changes prior to foaling. *Theriogenology*. 2020 Nov;157:399-406. doi: 10.1016/j.theriogenology.2020.08.004. Epub 2020 Aug 21. PMID: 32871444.

Thermochip clinical applications for your daily practice



Used as a screening tool,
combined with clinical state



During anaesthesia
and surgery



Post-operative and
Hospitalised animals

FOR YOUR CLINIC CUSTOMERS

Better understanding of individual horse's temperature range

Reduced stress for patients thereby enhancing animal welfare

Value-added innovation strengthening clinic image

Easier patient management

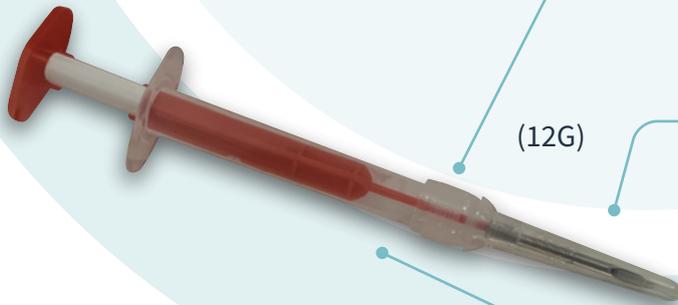
Time saving tool for monitoring temperature

The Identification Offering



Thermochip

Classic-sized
(2.12 x 13mm)



Safety

No return click system.
Detachable needle for easy recycling

Acceptance

Sharp and lubricated needle for
for excellent cutaneous penetration

Ergonomics

User-friendly design allows for safe
and easy application

Displays the temperature of ThermoChip (°C or °F settings)



GPR+

37.5°C / 99.5°F
985005624300245



Reads all types of microchip



- Ideal design for in-clinic use
- Noise-free vibration when microchip is detected



- Robust & resistant design
- Ideal for horses



For further information please consult your veterinary practitioner or: MSD Animal Health, Red Oak North, South County Business Park, Leopardstown, Dublin 18, Ireland.
Tel: +353 (0)1 2970220. Email: vet-support.ie@msd.com Web: www.msd-animal-health.ie