



HERDSTRONG™

TruCore™ Precision Monitoring

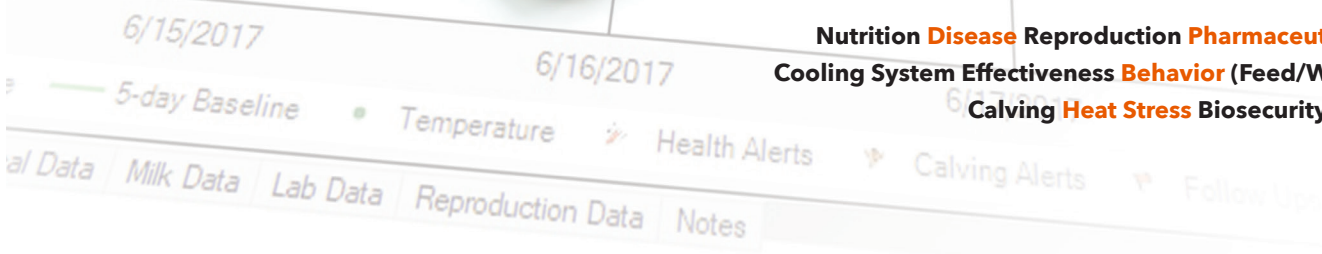
Introducing
**Ruminant Animal
Research Tool**

TempTrack™ Bolus Readings



**AUTOMATIC PRECISION
TEMPERATURE MONITORING**
Rumen temperature is valuable to your research

Nutrition Disease Reproduction Pharmaceutical Efficacy
Cooling System Effectiveness Behavior (Feed/Water intake)
Calving Heat Stress Biosecurity Physiology



JOIN THESE PRESTIGIOUS UNIVERSITIES & RESEARCH ORGANIZATIONS USING
HERDSTRONG™ PRODUCTS AROUND THE WORLD



ADVANCED TECHNOLOGY AVAILABLE TODAY

Calibrated temperature sensor

Sensor transmit distance up to 137-meter diameter (450 ft. diameter)

Battery life up to 5+ years

Temperature Measurement Range: 25°C - 48.4°C (77°F - 119.1°F)

Temperature Resolution: 0.1°C (0.1°F or customizable)

Temperature Accuracy: 0.07°C (0.126°F or customizable)

Temperature Repeatability: 0.031°C (0.0558°F or customizable)

Reading frequency: 15 minutes / transmission every 15 minutes (or customizable)

Ruminant Bolus: Length: 114mm (4 7/16"); Diameter: Top: 33mm (1 5/16"); Bottom: 31mm (1 1/4")

Bolus retention > 99%

Data logging capability (most recent 96 readings)

AWARD WINNING TEMPTRACK® SOFTWARE

Raw data (csv) or use TempTrack's sophisticated algorithms

Graphically view base line and circadian variations for each animal

Algorithms create circadian baseline, mitigate water / food variation

All data is backed up in the cloud, secure and remotely accessible 24 x 7

Join the growing body of research using rumen temperature monitoring:

Using temperature-sensing reticular boluses to aid in the detection of production diseases in dairy cows J. Dairy Sci. 96:1549-1555 <http://dx.doi.org/10.3168/jds.2012-5822>

Visually undetected fever episodes in newly received beef bulls at a fattening operation: Occurrence, duration, and impact on performance J ANIM SCI 2011, 89:4272-4280 doi:10.2527/jas.2011-3892

Engineering to support wellbeing of dairy animals Journal of Dairy Research (2016) 83 136-147.

Is reticular temperature a useful indicator of heat stress in dairy cattle? J. Dairy Sci. 99:10067-10076 <http://dx.doi.org/10.3168/jds.2016-11282>

Periparturient changes in reticuloruminal pH and temperature in dairy cows differing in the susceptibility to subacute rumen acidosis J. Dairy Sci. 98:8788-8799 <http://dx.doi.org/10.3168/jds.2015-9893>

Early detection of bovine respiratory disease in young bulls using reticulo-rumen temperature boluses The Veterinary Journal 190 (2011) 136-142

Ruminal Temperature May Aid in the Detection of Subacute Ruminal Acidosis J. Dairy Sci. 91:202-207 doi:10.3168/jds.2007-0535

Rumination time and reticuloruminal temperature as possible predictors of dystocia in dairy cows JDS 1-2017

Animal Behaviour Understanding using Wireless Sensor Networks 1-4244-0419-3/06/©2006 IEEE

Reticulo-rumen temperature as a predictor of calving time in primiparous and parous Holstein females J. Dairy Sci. 99:4839-4850 <http://dx.doi.org/10.3168/jds.2014-9289>



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