

E-MITTER BATTERY FREE
IMPLANTABLE
TRANSPONDERS



IT'S A SMALL WORLD AFTER ALL.

**THAT'S WHY OUR E-MITTER BATTERY-FREE IMPLANTABLE
TRANSPONDERS ARE SPECIFICALLY DESIGNED
WITH SMALLER RODENTS IN MIND**

E-Mitter battery-free implantable transponders use telemetry to provide temperature, gross motor activity and heart rate data. E-Mitters are small implantable transponders that are powered by capturing energy from electrical fields generated by the ER-4000 Energizer/Receiver. This allows the transponders to operate without batteries and remain implanted indefinitely to monitor the subject's temperature, activity or heart rate. As a result, high costs and downtime of explantation, refurbishment and reimplantation are avoided.

E-MITTER BATTERY-FREE IMPLANTABLE TRANSPONDERS

Four models to choose from:



G2 E-Mitter

Parameters: accurate temperature and gross motor activity

A smaller version of the TA E-Mitter sized especially for mice



G2 HR E-Mitter

Parameters: heart rate, core body temperature and gross motor activity

Smallest E-Mitter available with heart rate



TA E-Mitter

Parameters: core body temperature and gross motor activity



HR E-Mitter

Parameters: heart rate, core body temperature, and gross motor activity

Special features:

- Telemetry – no lead artifacts, tethers, exit site infections, or other hard-wired problems
- Battery-free – no downtime or recurring costs for battery refurbishment or recalibration
- Long-term monitoring – only implantable telemetry device to allow uninterrupted, lifetime studies in lab rodents
- Accurate and reliable – reporting physiological and behavioral data from unrestrained animals

| E-Mitters | Specifications |
|------------------------------|---------------------------|
| E-Mitter temperature range | 33° C - 41° C |
| E-Mitter accuracy | ± 0.1° C |
| G2 E-Mitter size / weight | 15.5 mm x 6.5 mm / 1.1 gm |
| G2 HR E-Mitter size / weight | 19.5 mm x 6.5 mm / 1.5 gm |
| TA E-Mitter size / weight | 23 mm x 8 mm / 1.6 gm |
| HR E-Mitter size / weight | 26 mm x 8 mm / 2.2 gm |
| HR measuring range | 120 - 780 BPM |
| Activity | Gross motor activity only |



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