

Animal Presence RFID Data Logger (APRDL)

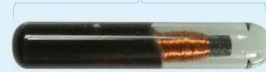
A Novel Technology for Collecting Animal Behavioural Data

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Research uses of APRDL:

- Breeding site and mate selection
- Breeding season movements at nest boxes, roosts, or burrows
- Parental care rates (incubation, feeding, brooding, etc.)
- Individual dispersal and range sizes
- Social behaviour

8,3 mm



Data on SD Card Output Example:

Date Time Transponder ID
20180723 – 112408 95D0000000008001

Light Barrier outer: ON
Light Barrier inner: OFF

APRDL goes into sleep
mode when there is no
activity to save battery life



Traditional Methods

(manual observations or camera traps)

- Observer biases and inaccuracy
- Short duration and high manpower for manual observations
- Short battery life of video footage of camera traps
- Extensive hours of video processing to sort data

APRDL

- Automatic and 24/7 data collection
- Read-to-use data output
- Compatible with many experimental methods and data usages
- Long battery life and large data storage
- Withstands variable weather conditions



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