

Timed Animal Manipulation Data Logger (TAMDL)

Automating the recording and manipulation of animal behavior

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Uses of Long Range TAMDL:

- Automated timed activation of devices/external triggers
- Installed on open nests (e.g. shorebirds, nightjars, birds of prey) or larger enclosed nests (e.g. owl nest box) for any species that can be equipped with an RFID pit tag/transponder
- Recording activity patterns
 - Incubation and brooding patterns, parental investment, sleeping behavior, return rates to breeding sites



Configuration and Output Example:

RFID configuration (UA1)

RFID_TYPE = LR (long range reader)
RFID_POWER = UA1
RFID_ABSENT_DETECT_TIMEOUT = 5s

Operating times for UA1 output [hour:min]

UA1_ON_TIME_1 = 08:00
UA1_OFF_TIME_1 = 18:00

Power Cycle Interval for UA1 output [s] → Battery Saving

UA1_INTERVAL = 20
UA1_ON_DURATION = 10

Follow-up times after measurement [s]

UA1_MEASURE_FOLLOW_UP_TIME = 30

RFID Reader Output Example

20181122-152000.000 Transponder:
9516B2B43A6F0001
20181122-152500.000 Transponder:
9516B2B43A6F0001 ABSENT

15cm

50cm



MAX-PLANCK-GESELLSCHAFT



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