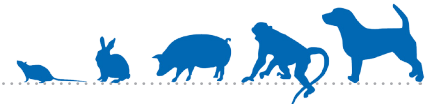




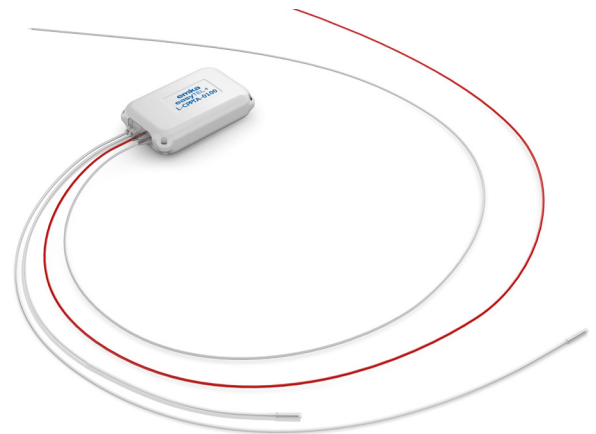
## IMPLANTED TELEMETRY FOR ANIMAL RESEARCH

CONTINUOUS, REAL-TIME PHYSIOLOGICAL DATA ACQUISITION



easyTEL+ range of implants offers researchers the ability to record:

- » Biopotential (ECG, EEG, EMG)
- » Temperature
- » Blood pressure (Arterial and/or Left Ventricular Pressure)
- » Acceleration from 3 axis accelerometer (activity)

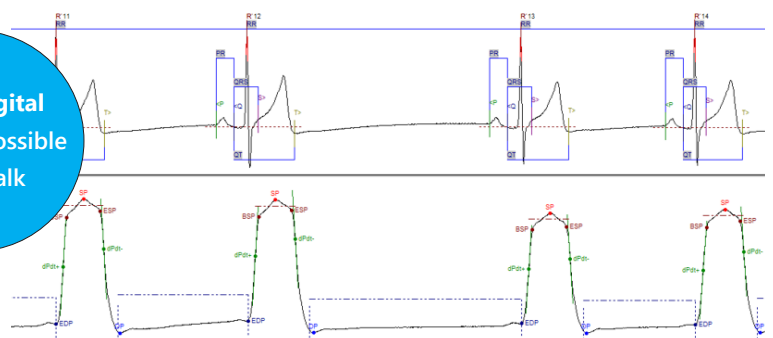


### EASY, ROBUST & COST EFFECTIVE

Up to 32 animals groupoused in the same room

No refurbishment (no associated costs or delay)

Fully digital with no possible crosstalk



- » Large & medium size models
- » Double pressure & multi-biopotential
- » ... see the complete range on the back!

Canine ECG, Left Ventricular and Arterial Pressure signals



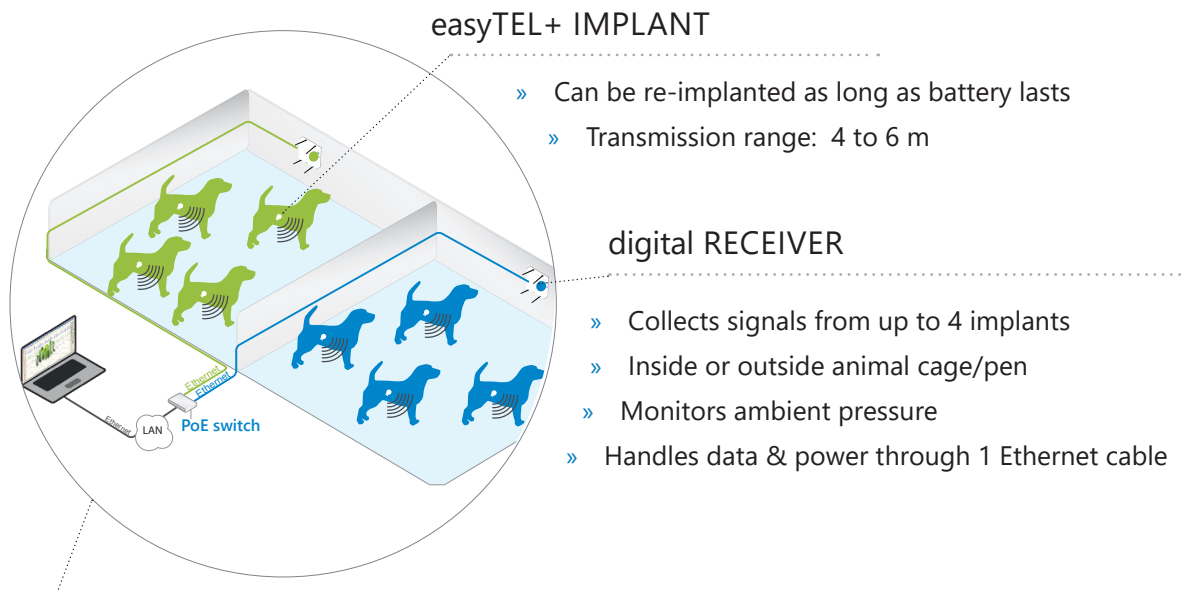
Group housing



Remote management



Cost effective



- » Can be re-implanted as long as battery lasts
- » Transmission range: 4 to 6 m

### digital RECEIVER

- » Collects signals from up to 4 implants
- » Inside or outside animal cage/pen
- » Monitors ambient pressure
- » Handles data & power through 1 Ethernet cable

## POWERFUL, ROBUST & FLEXIBLE SYSTEM

- » Implants can be remotely set to active or sleep mode
- » Implants can be remotely reconfigured, even once implanted
- » Implants can be recalibrated, even once implanted
- » No need to ever get close to the animals to turn implant on or off
- » System automatically recovers after power or network failure
- » QoS, indicating lost signal, is recorded as independant channel
- » Analysis may automatically skips zones of lost signal
- » System can be monitored from multiple distant PCs

## A VARIETY OF MODELS TO FIT ALL YOUR NEEDS

Models	Biopotential	Pressure 1	Pressure 2	Temperature	Activity	Battery life* (days)	Size (mm)	Weight (g)
L_TA				1	1	500	54x34x13	29
L_PT***		1		1		200	54x34x13	29
L_ETA	1			1	1	250	54x34x13	30
L_EPTA	1	1		1	1	160	54x34x13	33
L_EPPTA	1	1	1	1	1	105	54x34x13	34
L_EEPPTA	2	1	1	1	1	85	54x34x13	35
L_EEEETA**	4			1	1	95	54x34x13	35
M_PT***		1		1		50	35x23x10	11
M_EPTA**	1	1		1	1	40	35x23x10	11

\* Battery life given for standard sampling frequencies of 500Hz for biopotential, 250Hz for pressure 1 and 500Hz for pressure 2.

\*\* Available in 2018 (Q1).

\*\*\* Can be combined with emkaPACK4G telemetry system, for minimally invasive studies (non-invasive ECG, respiration, activity & implantable pressure and temperature). Available in 2018 (Semester 1).