

# THE POWERHOUSE OF TELEMETRY SYSTEMS

## Small animal telemetry from ADInstruments and DSI

ADInstruments and Data Sciences International have partnered globally, bringing together the combined strengths of LabChart and PhysioTel™ to provide an unparalleled solution for small animal telemetry data acquisition and analysis. From cardiovascular, CNS and pharmacological studies to sleep and seizure research, this integrated system provides researchers with a flexible and reliable solution that has simplicity at its core.

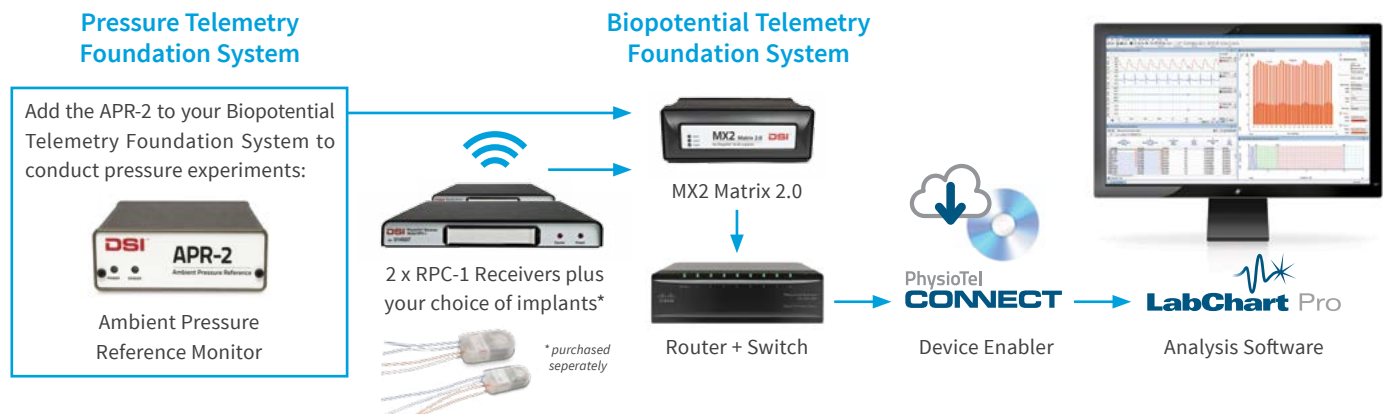
Continuous PhysioTel™ telemetry data is recorded from freely moving animals and streamed wirelessly into LabChart analysis software via PhysioTel Connect so you can get started on your analysis quickly and confidently. With a wide range of telemetry signals and the option of both of standard and customizable analysis features in LabChart - when it comes to flexibility you are only bound by the parameters of your research.

### Create a custom solution for your research

The Biopotential Telemetry Foundation System or Pressure Telemetry Foundation System combined with your choice of implants are the perfect base to build a comprehensive solution tailored for your research. If you already own some elements from the system, you can purchase the remaining pieces individually to get things going.

## DSI™

For over 30 years, DSI has been known for developing proven technology that provides reliable data and reproducible results through the most humane means possible. Research scientists around the world use and trust DSI telemetry systems to conduct studies involving freely moving animals.

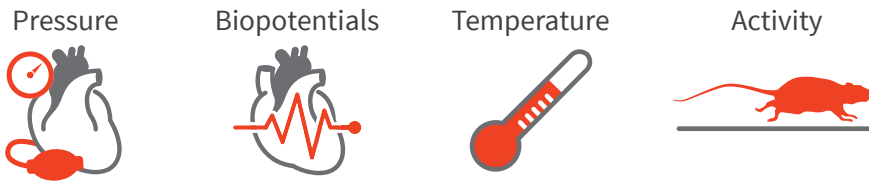


### Applications include:

Neuroscience • Behavior and Sleep • Cardiovascular • Metabolic • Electrophysiology • Pharmacology

## PhysioTel™ HD and PhysioTel™ Implants

Unsurpassed in the field of telemetry, the PhysioTel™ HD implants from DSI are the most advanced small animal telemetry products available on the market today. PhysioTel™ implant sensors can record a varying of range signals including:



## Implant options

	Auto-configuration	Encoded Animal ID	Battery Life Monitoring	Pressure Channels	Biopotential Channels	Temperature	Activity	Battery (months)	Weight (g)	Vol (cc)
<b>TELEMETRY IMPLANTS FOR MICE</b>										
<b>PhysioTel™ HD Extra Small Implants</b>										
HD-X10	✓	✓	✓	1		✓	✓	1.5	2.2	1.4
HD-X11	✓	✓	✓	1	1	✓	✓	1	2.2	1.4
HD-X02	✓	✓	✓		2	✓	✓	1.5	2.2	1.7
<b>PhysioTel™ Miniature Implants</b>										
PA-C10				1			✓	1.5	1.4	1.1
TA-F10						✓	✓	6	1.6	1.1
ETA-F10					1	✓	✓	2	1.6	1.1
<b>TELEMETRY IMPLANTS FOR SMALL ANIMALS</b>										
<b>PhysioTel™ HD Small Implants</b>										
HD-S10	✓	✓	✓	1		✓	✓	5	4.4	3.1
HD-S11*	✓	✓	✓	1	1	✓	✓	2	8	5.9
HD-S21	✓	✓	✓	2	1	✓	✓	2	8	5.9
HD-S02	✓	✓	✓		2	✓	✓	5	4.7	3.3
<b>PhysioTel™ Small Implants</b>										
F40-TT						2	✓	4	7.5	3.5
4ET*					4	✓	✓	3	12.8	8.8

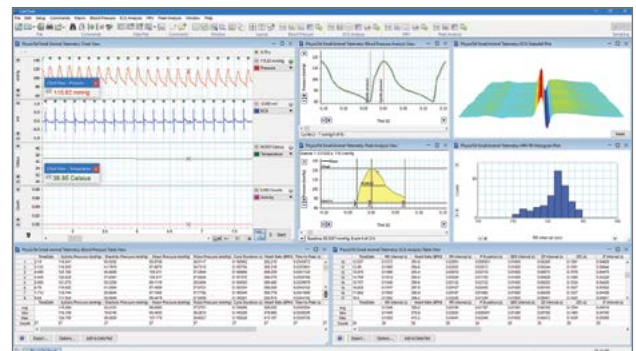
\* Paired housing option available

Note: A comprehensive range of implants is available, please ask your ADInstruments representative for a full list.

## Go beyond the standard approach with LabChart

LabChart analysis software creates a platform for many data recording devices to work together, allowing you to acquire signals from multiple sources simultaneously and apply advanced calculations as your experiment unfolds.

Screenshot: Rat pressure, ECG, temperature and locomotor activity recorded and analysed with Blood Pressure, ECG Analysis, HRV and Peak Analysis modules.



## System highlights

- **Simplicity:** Easy to set-up and use
- **Power:** Combine with a PowerLab to simultaneously acquire and analyze analog signals
- **Flexibility:** Options of standard analysis tools or full customization
- **Integrity:** LabChart tracks every action without modifying your raw data

Visit our website or contact your local ADInstruments salesperson for more information

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