Thomas Wireless System
(4 Recording + 1 Stimulation Channel)

Product Features

- Bidirectional System for simultaneous Recording & Stimulation (Software controlled)
- 4 Channel for extracellular Recording
- 1 Channel extracellular Stimulation
- Continuous recording with up to 4 thin microelectrodes or a single tetrode
- Integrated power supply
- Low noise 4 channel preamplifier
- Integrated bandpass main amplifier
- Single channel constant current source for stimulation
- Small size and low weight
- Integrated software package for signal recording and stimulation
- Low cost system

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Innovative Products for Neurophysiology

The **Thomas Wireless System (TWS)** is a portable multichannel telemetry system which can be used for extracellular neural stimulation and recording in freely behaving small animals (e.g. rats, guinea pigs). The **Thomas Wireless System** includes everything for freely moving neurophysiology: low noise 4 channel pre- and programmable main amplifier with fixed bandwidth, single channel constant-current stimulator for application of biphasic current pulses, software programmable microstimulator, everything housed in a small plastic cabinet, mounted on an implantable connector system. Implantable recording and stimulation microelectrodes including all accessories are also available for this system.

The **Thomas Wireless System** consists of a low noise 4 channel preamplifier offers 4 high impedance input recording and 1 stimulation channel. The **Thomas Wireless System** has a total weight of 3,9g (including multipin connector) and a size of (10x21x23)mm including plastic housing and without accumulator.

The standard accumulator has a capacity of 240mAh, dimension of (27x20x6)mm and a weight of 7,2g.

**The Thomas Wireless System**, is controlled by a software running under Windows operating system (see figure 4).

Ordering information: AN000957

info@ThomasRECORDING.com