



Multiplexing Pulse Booster

Cat. No. 3165

General

The 3165 Multiplexing Pulse Booster is a useful complement to any stimulator, delivering up to 800 mA of constant current to up to four in-vitro preparations (e.g. smooth muscles) at the same time.

The Multiplexing Pulse Booster has been designed to obviate the inconveniences connected to the use of single-channel stimulators, that lack the independent output connections and the individual adjustment capability to deliver pulses of preset intensity to more than one preparation.

It is especially useful when "field electrodes" and other low impedance stimulation arrangements are used.

Bear in mind that the one-channel stimulator can be conveniently replaced by a data acquisition system



Four in-vitro preparations (e.g. smooth muscles) can be driven by a single one-channel stimulator

Main Features

- High Power (up to 800 mA) constant current
- Adequate Voltage (45V) enabling stimulation by field electrodes of most in-vitro preparations
- Independent Isolated Circuits to eliminate interference
- Continuous Monitoring of the preset current flowing through each preparation
- Unipolar or Bipolar Mode

Instrument Description

The 3165 features:

- High Power (up to 800 mA) digitally adjustable constant current
- Adequate Voltage (45V) which enables stimulation by field electrodes of most in-vitro preparations described in the literature
- Unipolar or Bipolar Mode
- Independent Isolated Circuits to eliminate interference
- Continuous Monitoring of the preset current flowing through each preparation

The current level of each channel is set via its individual 3-digit thumb-wheel switch.

The current output is adjustable in each channel to equal or different levels in the range 0-799 mA in 1 mA steps.

These current levels are independent on the Stimulator output voltage.

The pulse mode, either unipolar or bipolar, can be selected on one or more channels.

Optional Timer

An optional **Timer (Cat. 3175)** can be supplied, housed in its individual mini-box, to enable the Pulse Booster to deliver pulse trains, when the Stimulator lacks this feature.

This timer is provided with both train and pause-between-trains duration adjustments. Both adjustment time-scales span the interval 0-999 seconds in 1 second steps.

A standard field electrode pair (Cat. 3160) can be supplied. Special electrodes can be designed and manufactured on request.

Please ask for details!

Ordering Information

3165 MULTIPLEXING PULSE BOOSTER, complete

| | |
|-----------------|--------------------|
| 7562 | Dust Cover |
| 3135 | Instruction Manual |
| E-WP 008 | Power Cord |

Optional 3175 Timer for 3165

PHYSICAL

| | |
|--------------------------|-----------------------------|
| Power Requirement | 115/230 V, 50/60 Hz, 30W |
| Dimensions | 26 (w) x 30 (d) x 12 (h) cm |
| Weight | Kg. 4.4 |
| Shipping Weight | Kg. 6.5 approx. |

Bibliography

● M.G. Matera et alia: "Immune Sensitization of Equine Bronchus: Glutathione, IL-1 β Expression and Tissue Responsiveness" *Respir Res.* 6(1): 104, 2005

● D. Licheri et alia: "Long-Term Voluntary Ethanol Consumption Induces Impairment of the Mechanical Performance in the Papillary Muscle of Sardinian Alcohol-Preferring Rats" *Alcohol and Alcoholism* 36 (1): 44-47, 2001

● S. Tambaro et alia: "Evaluation of Tamsulosin and Alfu-zosin Activity in the Rat Vas Deferens: Relevance to Ejaculation Delays" *J. Pharmacol. Exper. Therap.* 312: 710-717, 2005

● S. Ruiu et alia: "Synthesis and Characterization of NESS 0327: a Novel Putative Antagonist of the CB1 Cannabi-noid Receptor" *J. Pharmacol. Exper. Therap.*, 2003