DS4 Bi-phasic Stimulus Isolator

Output: Bi-phasic constant current proportional to the input voltage

Output Ranges: ±10μA; ±100μA; ±1mA; ±10mA for a full scale input

Output Duration: >2µs

Compliance: ±48V from 8x GP23A batteries

Linearity: ±3% of full scale output for each output range

Output Impedance: >900Mohms

Output Rise Time: <5µs (1kohm load), <40µs (1Mohm load)

Frequency Response: Expected DS4 output is maintained for frequencies up to 5kHz.

Inputs:

IN: Ranges: ±1; ±2.5; ±5; ±10 V full scale (selected by an internal jumper) with a limit of ±12V max.

without damage.

Input Impedance: 1Mohm

GATE: Range: TTL; Gate OFF if Low; Gate ON if High or open circuit. Limit of ±15V max.

Input Impedance: 10kohm

Inactivity Sensor: The output is disabled if the voltage input remains within 0±0.2% of the full scale value for a user

selectable period of 100ms, 200ms, 1s or 2s. This time period can be adjusted with an internal

jumper.

Connections: Output - 2mm shrouded, touch-proof sockets (red and black) spaced at 0.75"

Input - Front panel BNC socketGate - Front panel BNC socketBattery Test - Six 2mm sockets

Power - Socket for external power supply

Controls: Gate - On/Off toggle (Off overides BNC input)

Output Range - 4 position rotary switch

Power - On/Off toggle switch

Indicators: Power ON LED Green (lit when the power supply is connected and DS4 is switched On)

Gate Enabled LED Amber (lit when Gate is On and the Gate Input is held TTL high)

Phase +ve LED Amber (lit when input exceeds +0.2% of full scale voltage)
Phase -ve LED Amber (lit when input exceeds -0.2% of full scale voltage)

Power: Included external power supply (input voltage 100V - 240V) providing ±15V DC output.

10 x 12V GP23A Batteries.

Mounting: One or two stimulators may be mounted in a 19" rack using a specially fabricated frame (model

D121-11) available from Digitimer Ltd.

Dimensions: $190 \times 110 \times 80 \text{ (w x h x d)}$

Weight: 500g (approx.)

Digitimer reserves the right to change specification without prior notice