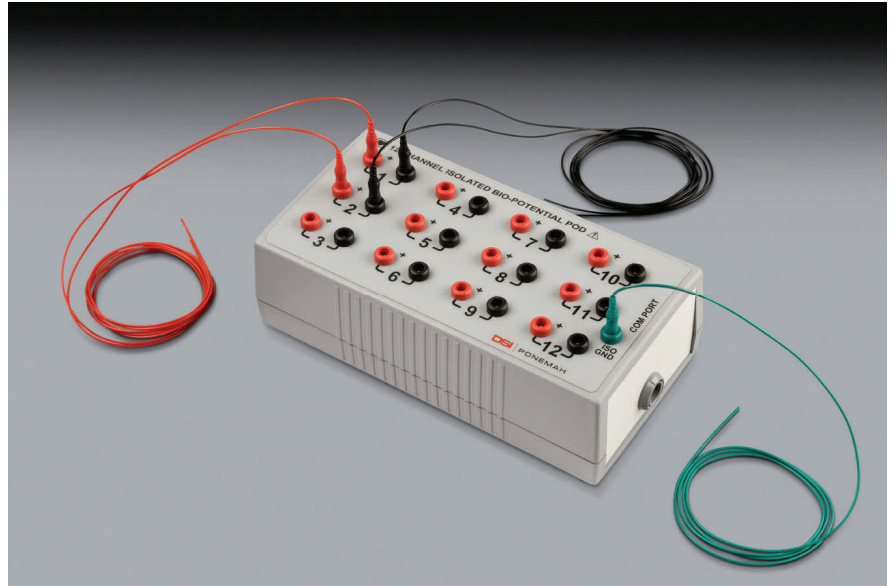




7700 Series 12 Channel Isolated Bio-potential Pod



Features

- 16 Bit A/D resolution
- 12 Differential Pairs
- User selectable Low Pass filter settings
- User selectable gain ranges from 40uV to 40mV full scale

The BIO12 Pod can be used to satisfy a wide variety of applications where bio-potentials are collected. This includes, but is not limited to, Langendorff preparations, Isolated Heart preparations, and open-chested models where electrograms or other bio-potentials are monitored. An adapter cable (20 feet in length) is used to connect the BIO12 Pod to the 7700 chassis which allows the pod to be next to the preparation. This extended cable allows the BIO12 pod to be easily accessible when changes to the position or number of leads is needed. This also allows the lead wires that connect the BIO12 Pod to the preparation to be shorter in length which helps reduce noise by minimizing interference from other sources in the laboratory.

User selectable gain ranges for specific signal types, calibration information stored in the configuration file and industry standard connections make this unit versatile and easy to implement.

Technical Data Sheet

Model 13-7770-BIO12

12 Channel Isolated Bio-potential Pod (BIO12 Pod)

SPECIFICATIONS

General

# Channels	12 Differential pairs
Resolution	16 Bits
Maximum Rate	20kHz per channel

Signal Input

Input Impedance	>10M Ohm
Input Range	40uV to 40mV Full Scale
Maximum Input	±30V DC, AC Peak (Max without damage)

Programmable Filters

Low Pass	100, 300, and 1,000Hz
High Pass	0.05Hz Fixed (hardware implemented)

Accuracy Specifications

Gain Error, % of FS	<±0.5%
Linearity, % of FS	<±0.5%
Noise	< 20uV pk-pk
Zero Drift, % of FS	0.01% of Full Scale per Degree C (typical)
Common Mode	<-90dB

ORDERING INFORMATION

Part Number

13-7770-BIO12	12 Channel Isolated Bio-potential pod (requires 13-7715-70 DCOM)
13-7715-70	Digital Communication Module (DCOM)

Description

Accessories

J03557-20	Serial Link Cable, 20Ft., 7700 BIO12 Pod to DCOM
P02407-0	Lead 36"; 1.5mm Plug to Unterminated, Black
P02407-2	Lead 36"; 1.5mm Plug to Unterminated, Red
P02407-5	Lead 36"; 1.5mm Plug to Unterminated, Green
P02409-0	Touch Proof Adapter; 1.5mm to 2.0mm, Black
P02409-2	Touch Proof Adapter; 1.5mm to 2.0mm, Red
P02409-5	Touch Proof Adapter; 1.5mm to 2.0mm, Green

274-7004-001

Subdermal Needle Electrodes 27 GA,
6MM, 6ft/1.8m, Sterile (quantity 25)

*Specifications are current at publication.
Due to DSI's continuing product improvement program,
specifications may change without notice.*

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