

Multi-Lead ECG POD



Features

- **Continuous Signals - 12 Simultaneous Leads**
- **High Fidelity Diagnostic Mode Filtering .05 – 500Hz**
- **Convenient Side Panel Input & Output Connections**
- **Isolated Defibrillation Protected with Baseline Reset**
- **QRS Pulse Detection feature**
- **Leads Off Indicator**
- **Easy 2 Button Calibration Check**

This Multi-Lead ECG POD has been designed to meet the demanding requirements of the pre-clinical research community. The POD accurately conditions up to twelve simultaneous surface ECG leads. The leads are; I, II, III, aVR, aVL, aVF (derived from Einthoven's triangle) and six V leads (referenced to Wilson's central terminal). The RL (Right Leg) is driven by a signal derived from either Wilson's central terminal or Iso-common. Patient (subject) connections are accomplished via an industry standard ten-lead ECG cable. User defined criteria allow the system to detect a QRS complex and generate a TTL (transistor-transistor logic) output to trigger external equipment.

Technical Data Sheet

Model 13-7770-ECG12

Multi-Lead ECG POD

ELECTRICAL SPECIFICATIONS

Signal Input

The ECG inputs are available on the side panel via a captive 15 pin female, D-sub connector.

Input Leads	RA, LA, LL, RL, and V1-V6
Resolution	16 Bits
Sample Rate	10 kHz, 12 channels MUX at 120 kHz
Input Impedance	>10M Ohms
Input Voltage	±250uV to ±25mV full scale
Defibrillator Protection	360 Joules delivered at 5000V
Isolation	> 1500V rms for 1 minute, isolated circuits to chassis

Programmable Filters

Low Pass	10, 30, 100, 300, 500 Hz (hardware implemented)
High Pass	0.05, 0.10, 30.0 Hz (hardware implemented)

Accuracy Specifications

Gain Error, % of FS	<±0.5%
Linearity, % of FS	<±0.5%
Noise	< 15uV pk-pk or 0.1% of Full Scale (whichever is greater)
Common Mode	>90dB

ORDERING INFORMATION

Part Number

13-7770-ECG12
13-7715-70

Description

Multi-Lead ECG POD
Digital Communication Module (DCOM)

Accessories

PNM-P3P-7002XS	ACQ7700-USB Acquisition Interface Unit (2-slot)
PNM-P3P-7002	ACQ7700-USB Acquisition Interface Unit (6-slot)
PNM-P3P-7002XE	ACQ7700-USB Acquisition Interface Unit (13-slot)
274-7000-001*	10 Lead Input Harness for Multi-Lead ECG POD, 6ft/18.m.
274-7001-001*	10 Lead Patient Cable Set (Banana) for Multi-Lead ECG POD, 29in/74cm.
274-7002-001*	10 Lead Patient Cable Set (Grabber) for Multi-Lead ECG POD, 29in/74cm.
274-7004-001	Subdermal Needle Electrodes 27 GA, 6MM, 6ft/1.8m, Sterile (quantity 25)
J03557-20	Serial Link Cable, 20Ft., for 7700 Pod to DCOM

* Included with purchase of Multi-Lead ECG POD (13-7770-ECG12)

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

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