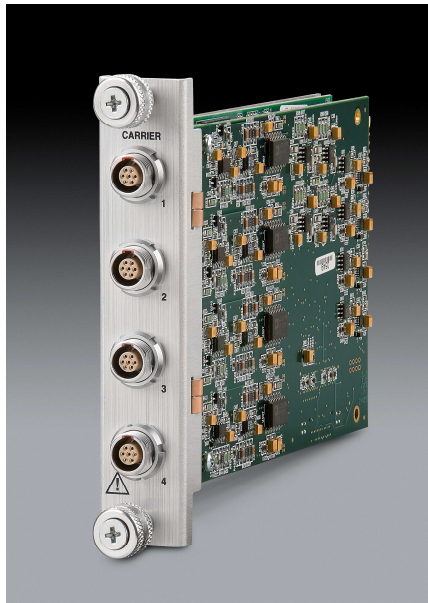


7700 Series Carrier Signal Conditioner



Features

- 16 Bit A/D resolution
- 4 Channels per signal conditioner
- User selectable Low Pass filter settings
- Digital signal conditioner maximizes the A/D resolution
- Designed specifically for use with Validyne Pressure Transducers

The Carrier signal conditioner was designed to work with the Validyne DP-45 and DP-250 Pressure Transducers for accurate pulmonary pressure, volume and flow measurements. Since the Carrier signal conditioner was designed around the Validyne transducers, you can be sure that measurements are accurate with virtually no drift when compared to competitive products. Coupled with the Pulmonary Air Flow (PAF), Pulmonary Compliance and Resistance (PCR), and Unrestrained Plethysmography (URP) software analysis modules, DSI can record and analyze data from virtually any pulmonary application.

Technical Data Sheet

Model 13-7715-35

Carrier Signal Conditioner

SPECIFICATIONS

General

# Channels	4
Resolution	16 Bits
Maximum Rate	5K Samples/second per channel synchronized to Excitation Voltage
Transducer Excitation	5VRMS @ 5KHz for use specifically with Validyne Transducers

Signal Input

Input Impedance	>10M Ohm
Input Range	Continuously Variable $\pm 500\mu\text{V}$ to $\pm 300\text{mV}$ (0.2mV V to 120mV/V)
Maximum Input (Max without damage)	30V DC, AC Peak

Input Suppression

Zero Suppression	Continuously variable, $\pm 200\text{mV}$
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Programmable Filters

Low Pass	10, 30, and 100Hz
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Accuracy Specifications

Gain Accuracy, % of FS	<0.5%
Linearity, % of FS	<0.1%
Output Noise	< 0.02% Full Scale
Zero Suppression Error	< $\pm 0.5\%$

ORDERING INFORMATION

Part Number	Description
13-7715-35	Carrier Signal Conditioner

Accessories

600-1100-001	Validyne Pressure Xdcr DP-45, +/- 2.25CMH2O
600-1101-001	Validyne Pressure Xdcr DP-45, +/- 22.5CMH2O
600-1102-001	Validyne Pressure Xdcr DP-250, +/- 2.25CMH2O
600-1103-001	Validyne Pressure Xdcr DP-250, +/- 22.5CMH2O
J03397	Adapter cable from 4 pin Cannon to Lemo connector

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

DSI products are not intended for the purposes of diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease, or used as a life support device. Use of DSI products are solely for the purposes of conducting life science research.