

Technical Specifications

Pressure Transducer Characteristics	
Specification	Value
Transducer Sensitivity	5 μ V/V/mmHg, nominal
Bridge Excitation Load Resistance	1000 ohms, nominal 350 ohms, minimum
Transducer Bridge Excitation	5.0 V _{DC} , nominal
Signal Input Resistance	50 mega-ohms, nominal
Input connector for system	Five-pin Redel or ODU

Pressure Outputs	
Specification	Value
Sensitivity	1 V/100 mmHg, nominal.
Accuracy Error Band	0 – 200mmHg: $<\pm 1$ mmHg or 1 % of reading, whichever is greater 201 – 300mmHg: < 1.5 % of reading
Frequency Response	DC to 400 Hz (-3 dB)
Noise	< 0.3 mmHg peak-to-peak
Balance Adjustment Range	± 140 mmHg, nominal

Pressure Standby-Calibration Mode	
Specification	Value
Zero Offset	$<\pm 1$ mmHg
Calibration Steps	0, 25, and 100 mmHg
Calibration Accuracy	$<\pm 0.5$ mmHg

Volume/Conductance Outputs	
Specification	Value
Sensitivity	Seven gain settings with maximal conductance inputs of: 5mS/segment 10mS/segment 25mS/segment 50mS/segment 100mS/segment 250mS/segment 500mS/segment
Frequency Response	400 Hz
Output Resistance	1690 ohms, nominal
Noise	$\leq 75\text{mV}_{\text{PP}}$
Input Connector	27-pin Alden Pulse-Lok® Pulse-Lok is a registered trademark of Amphenol Alden Products Company, Inc.

Volume/Conductance Standby-Calibration Mode	
Specification	Value
Calibration Verification Steps	Single Field excitation mode: 667uS, 2.16mS, 5.37mS, 20.0mS, 53.4mS, and 200.0mS. Dual Field excitation mode: 676uS, 2.17mS, 5.40mS, 20.1mS, 53.6mS, and 200.8mS Inputs are available at appropriate gain ranges.

Temperature Measurement	
Specification	Value
Range	24 – 43 °C (75 – 110 °F)
Accuracy of analog output	$\pm 0.05^{\circ}\text{F}$ ($\pm 0.03^{\circ}\text{C}$)
Input type	J curve thermistor, 10k-ohm at 25°C, beta = 3890

ECG	
Specification	Value
Gain	2000 X
Frequency Response	Band pass filter from 0.5Hz to 30Hz (-3dB attenuation) Software enabled/disabled 60Hz notch filter
Source	Software selectable between external leads connected through front panel receptacle and primary conductance excitation electrodes (for IECG).

Power	
Specification	Value
Input (Universal)	90 – 250V _{AC} , 50 – 60 Hz, 40VA
Connector type	EN60320/C13
Ground terminal resistance to power cord ground pin, 7-ft cord	<1 ohm

Enclosure	
Specification	Value
Ingress protection	IP-20
Dimensions	12 3/8" x 11 3/4" x 2 7/8" (width x length x height) 31.4cm x 29.7cm x 7.3cm (width x length x height)
Weight	5.6 pounds (2.54kg)

Environmental Conditions	
Specification	Value
Location	Indoor Use
Altitude	Up to 2000m
Ambient Temperature	10 – 40 °C (50 – 104 °F)* * The error in the conductance reading over the full temperature range is ±7%.
Storage Temperature	-20 – 70 °C (-4 – 158 °F)
Mains Supply Voltage Fluctuations	Power supply voltages may vary by up to 10% of the nominal voltage (110V _{AC} or 220V _{AC}). Transient overvoltages are allowable.