



ADVANCED
RESEARCH INSTRUMENTS
CORPORATION

May 7, 2008

PMT- 4-V3 CURRENT TO VOLTAGE AMPLIFIER

SPECIFICATIONS

Input Impedance	1 k Ω
Input Signal Range	100 pA/V to 10 μ A/V output
Output Range	\pm 10V
Output Impedance	100 Ω
Power Requirements	\pm 15VDC, 50mA
D.C. Drift	0.2pA/ $^{\circ}$ C

Range	100 pA/V	1 nA/V	10 nA/V	100 nA/V	1 μ A/V	10 μ A/V
Bandwidth	250 Hz	3 kHz	35 kHz	350 kHz	2 MHz	3.5 MHz
Equivalent Input Noise [RMS]	0.9 pA	4.5 pA	42 pA	410 pA	700 pA	1.0 nA
Equivalent Input Noise [p-p] at 20MHz BW	6 pA	30 pA	0.3 nA	3 nA	30 nA	40 nA

9 Pin Sub Miniature D Connector Pin Out

1	N/U
2	N/U
3	+15VDC
4	N/U
5	N/U
6	Signal Ground
7	Power Ground
8	-15VDC
9	Output

FEATURES

Low Noise
Wide Sensitivity Range
Small Size
Stabilized Power Conditioning
Low Cost

APPLICATIONS

Spectroscopy
PMT or Photo Diode Preamplifier
Low Light Level Detection