

ZAMP-A / ZAMP-B

ZAMP Detector Transimpedance Amplifiers

A low-noise current-to-voltage amplifier family connects current-output optical detectors to voltage-input acquisition equipment. Eight gain settings cover different detector signal levels.

Best suited to: Single-point silicon, InGaAs and photomultiplier measurements.



Configuration

Choose gain around the largest expected detector current and the downstream input range. Check bandwidth and detector capacitance together to avoid compromising response time or stability.

Specifications

Published parameters	
Gain	10^3 – 10^{10} V/A
Input current	$-5 \text{ mA} < \text{lin} < +5 \text{ mA}$
Output voltage	$-5 \text{ V} < \text{Vout} < +5 \text{ V}$
Output impedance	$< 1 \Omega$
Gain uncertainty	2% at 10^3 – 10^8 ; 5% at 10^9 – 10^{10} V/A
Output noise	0.5 mV, published ZAMP-A value
ZAMP-A dimensions	195 × 121 × 88 mm

Measurement features

- Eight gain settings from 10^3 to 10^{10} V/A.
- ZAMP-A uses an external power adapter.
- ZAMP-B supports adapter or rechargeable-battery operation.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/zamp