

Simplified, Compact, Low-Cost Galvanometer Amplifier

T-IVA001BZ

RoHS

Features

Now fully RoHS compliant.

For use in very precisely converting ultra-low current output from a photodiode or photomultiplier tube into voltage.

The design successfully minimizes any current leakage, and thus minimizes any error. Operates on a single power supply, and thus also supports use of batteries as the power supply.



Rear Panel

Specifications (values with a conversion resistance of 1M Ω)

Number of Channels	1
Current/Voltage Conversion Rate	1E6 (V/A)
Conversion Error	Within $\pm 2\%$ (25C or less)
Frequency Property	DC ~ approx. 140kHz within $\pm 3\text{dB}$, signal source resistance 1M Ω /power supply voltage 30V/output voltage $\pm 8\text{Vp}$
Noise Output	approx. 200 μVrms (equivalent to 200pA) or less (measured with the input connector open and using an electrostatic shield, and with batteries (006P x 1) as the power supply)
Max. Output Voltage	approx. $\pm 12\text{Vp}$ (power supply voltage 30V)
Max. Output Current	$\pm 10\text{mA}$ [recommended output current: $\pm 100\mu\text{A}$ or less]
Output Resistance	50 Ω
Power Supply	DC8 ~ 30V (Circuit GND is the middle voltage of an external power supply, and not isolated)
Consumed Current	approx. 6mA (power supply voltage 10V), approx. 7.6mA (power supply voltage 30V)
Operating Temperature	5C ~ 45C [recommended operating temperature: 25C or less]
Dimensions	80 (w) x 35 (h) x 75 (d) mm (protrusions such as connectors not included)
Weight	approx. 200 g (connection cables not included)

Accessories	Cable for Dry Batteries (006P, 9V, 6F22, 6LR61, 6LF22)	1 set
	Power Supply Cable with Plug	1 set
	Case Feet (set of 4)	1 set

Both the specifications and usage are subject to change from improvements. Free warranty period of 6 months.

We contract the development, design, and manufacture of various systems using electronic and computer technologies.



Turtle Industry Co., Ltd

1-12-4, Nishine Minami, Tsuchiura, Ibaraki,
Japan, 300-0842
Tel: +81-29 (843) 0045 Fax: +81-29 (843) 2024
URL: <http://www.turtle-ind.co.jp>
E-mail: tokyo@turtle-ind.co.jp

December 11, 2012