

Fast and Sensitive!

Transimpedance Amp TZA400



Highlights:

- Fast
- Wide dynamic range
- Compact

Our offer in Detail:

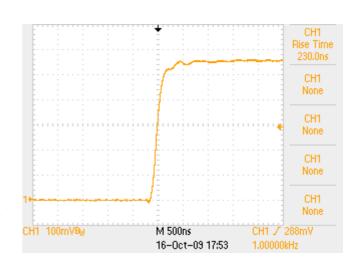
The TZA400 is a fast, sensitive, wide dynamic range transimpedance amplifier for measuring the current output of a variety of sources. There are 16 gain ranges covering 5 decades of gain in a 1-2-5 pattern. The gain-to-gain accuracy of <1% allows confident measurements of power curves over the full range of sensitivity of the device: 6½ decades of measurement range. Thus even very demanding measurements such as the accurate and high speed, real-time determination of polarization extinction ratio becomes a simple task.

The compact design allows use direct at the source for low noise and pickup. The sturdy enclosure with mounting wings serves use in the lab as well as for OEM applications.

Functional control is via a DB25 hardwire interface for direct, sub µs control of all parameters. This feature is useful for OEM implementation in feedback loops such as fibre alignment applications.

Highlights

- Wide dynamic range: 500pA 4mA
- Fast: <1µs rise time (10³-5x10³V/A); <4µs (>5x10³V/A)
- Two versions available: 16 gain ranges (1-2-5 pattern) or 4 gain ranges (decade pattern)
- Optional channel counts: 1, 2, 3 or 4 channels per enclosure, all with the same footprint

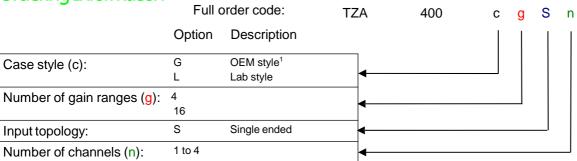


Your problem is our challenge – flexibility is our standard:

We will gladly adapt, for example, the current range or the case style to suit your application. Let us know your requirements.



Ordering Information



Specifications

Parameter	Conditions	Min	Тур	Max	Units	
Input						
Current ranges (full scale)	Maximum range Minimum range		4 40		mA nA	
Noise equivalent current (NEI _{RMS})	Range: 4mA 40nA			2.5 500	μA pA	
Impedance		0 (virtual short circuit)			Ω	
Connectors		BNC				
Output		'			-	
Function		Linear analogue V _{out} = scale x I _{in}				
Output scale with 16 gain range option	Range: 4mA 40nA		1 0.1		V/mA V/nA	
Output scale with 4 gain range option	Range: 4mA 4µA		1 1		V/mA V/µA	
Connectors		BNC and DB25				
Output range (full scale)				4	V	
Rise / Fall time (10% - 90%)	Gain: 10³-5x10³V/A Gain: >5x10³V/A		0.25	1 4	μs	
Accuracy		± 1			%	
Linearity			± 0.1	± 0.2	dB	
Output impedance				50	Ω	
Logic	<u> </u>					
Current required for switching (5V)		-100	5	100	nA	
Switching time				2 ²	μs	
Power Supply			1			
Туре		Wall plug (supplied)				
Dimensions		130 x 106 x 116 mm (w x h x l)				

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