



Measuring Amplifiers of Voltage and Charge

NTIP5100, NTIP5200



Parameter	Unit	NTIP5100	NTIP5200*2
Input voltage range.....	V	± 10	± 10
Input charge range.....	pC	10 ⁵	10 ⁴
Frequency range at the level -3 dB.....	Hz	0.3 ... 10 ⁵	0.3 ... 3 · 10 ⁴
Input resistance.....	Ohm	> 10 ⁹	> 10 ⁹
Output resistance.....	Ohm	< 100	< 100
Maximum output voltage at the non-linear distortion factor < 5 %.....	V	± 10	± 10
Root-mean-square noise value (reduced to the input).....	μV	< 10	< 5
Power of transducers with built-in preamplifier:			
- voltage.....	V	+24	+24
- current.....	mA	3.6	3.6
Voltage ranging factor, (error ± 0,5 %)	-	1, 2, 5, 10, 50, 100, 200, 500	1, 10, 100, 1000
Current ranging factor, (error ± 0,5 %)	mV/pC	0.1; 0.2; 0.5; 1; 2; 5; 10; 20; 50; 100; 200; 500	1, 10, 100, 1000
Influence coefficient of ambient air temperature change within the range from 0 to 40°C on amplification and conversion factor...	%/°C	-	≤ 0.025
Condition factor:			
- voltage.....	V/Eg	1 ... 10.99	1 ... 9.99
- current.....	pC/Eg	(step 0.01)	(step 0.01)
Main measuring error:			
- RMS acceleration	%	± 1	± 1
- RMS vibration velocity.....		± 1.5	



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Built-in filters with the AFC decay no less than 20 dB/decade at the level - 3dB:			
- high-frequency filter.....	Hz	0.3; 1.0; 3.0; 10	0.3; 1.0; 3.0
- low-frequency filter.....	kHz	-	1; 3; 30
Built-in low-frequency filters with the AFC decay no less than 30 dB/decade at the level - 3dB....	kHz	1; 3; 10; 30	-
Supply voltage.....	V	+ (12 ± 2)	+ (12 ± 2)
Consumption current.....	mA	< 600	< 300
Input connector type:			
- unbalanced charge connector		BNC	10-32 UNF
- balanced charge connector	-	TWIN BNC	-
- with built-in preamplifier		BNC	BNC
Output connector type.....	-	BNC	BNC
Power supply.....	-	self-sufficient and network from adapter	network from adapter
Dimension.....	mm	195×145×120	145×77×43
Weigh.....	gram	1,200	500