

➤ TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.

Properties CAu10	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes			-		
Number of channel			2		
Function			Standalone voltage amplifier board		
Cooling			Natural convection		
Protection			None		
Main voltage	Standard main supply	VDC	3,3 ... 15		
Control input voltage	Standard environment	V	0 ... 3,3		
Min. output voltage	Standard environment	V	5		
Max. output voltage	Standard environment	V	150	145.0	160.0
Gain	Standard environment	V/V	45	42.8	47.3
Max. output current		A	0.005	0.004	0.006
Max. output load capacitance		μF	40	36.0	44.0
Signal to noise ratio	Noise measurement conditions	dB	70	80.0	90.0
Unloaded output bandwidth (-3dB)		Hz	40000	36000	44000
Loaded Output bandwidth (-3dB)	Standard load	Hz	9	8.6	9.4
Input impedance		kOhms	10	9.5	10.5
Mass		g	2.2	-	-
Dimensions		mm	27*25*7		
Connectors	Hirose 2, 5, 8 pts, pitch 1.25 mm				

*Bandwidth settled according to your specifications; by default 1 Hz.

➤ PROPERTIES STANDARD TECHNICAL CONDITIONS OF USE AND MEASUREMENT

Quasistatic excitation	: AC voltage between -20 and 150 V at 1 Hz
Environment	: Ambient temperature (15-25°C) and dry air (Humidity < 50 % rH)
Standard main supply	: Main according to directive HD472; could be adapted to 110 VAC on request
Noise measurement conditions	: Excitation 0.5 Vrms ; reading bandwidth 1 Hz to 1 kHz
Standard load	: Actuator APA from series S or SM : 1.55 μF (load test may be different)

Any technical conditions of use, different from those defined above, can lead to temporary or definitive alterations of properties. Thank you to contact CEDRAT TECHNOLOGIES before using actuators under non standard technical conditions.

➤ FACTORY TESTS CARRIED OUT

- Test 1: Load and discharge time
- Test 2: Linearity output voltage vs. input voltage

➤ EXTRA FACTORY TESTS

- Test 3: Gain and linearity in closed loop
- Test 4: Step response in closed loop (sensor output voltage versus command voltage)
- Test 5: Bode diagram

➤ AVAILABLE OPTIONS

- [UC] Servo controller
- [PP] Push-pull