

➤ 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.

Option UC45	Standard technical conditions	Unit	Nominal values	Min. values	Max. values
Notes					
Function			Option on amplifier board - Numerical servo controller		
Size		mm	50*70		
Max. number of control channels			1 per channel		
Sampling frequency		Hz	10000		
A/D converters			16 bit @ +/-10V		
D/A converters			16 bit @ +/-10V		
Computer interface			USB		
Filter cells	2nd order low-pass or stop-band filter @ [150 2000]Hz		Selectable by the GUI HPDM45		

*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)

The optional board UC45 is available for the board CA45, LA75A-x, LA75B-x and LA75C-1. The optional board UC45 is delivered with a free standard version (latest version downloadable on the web site) of a (Graphical User Interface) GUI software HPDM45. This GUI is an Labview® executable software (the Labview® from National Instruments is not transferred) and provides the following functionalities:

- remote control of the drive electronic,
- change of the parameters of the controller PID + Notch,
- order selection between internal (e.g. generated by the GUI), external (analogue order).

Any upgrade of a GUI of possible extended functionalities is possible under request.

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: Gain and linearity in closed loop
- Test 2: Step response in closed loop (sensor output voltage versus command voltage)

➤ EXTRA FACTORY TESTS

- Test 3: Bode diagram

➤ AVAILABLE OPTIONS

- [MC] Multi-channel capability on request