AMC300

1016668

Technical Specifications

General Specifications	
type of instrument	multi-functional piezo controller for closed loop positioners
number of axes	up to 3 for table top, up to 6 for rack version
connector to product (pos/mic)	3 x D-Sub HD 26-Pin
Modes of Operation	
open loop positioning	stepping and fine positioning mode for AN* series positioners
closed loop positioning	closed loop control for AN*/RES positioners
remote operation	USB 2.0, Ethernet port, remote control (DS4)
no. device per operation	control of multiple devices via one PC via Daisy chaining (/PRO - Feature)
Size and Dimensions	
chassis	22 x 22 x 8.8 cm^3 (table top); 19", 2 rack units (rack versions)
weight	approx. 2 kg (table top); approx. 2.5 kg/4,5 kg (single/double rack)
Controller Hardware	
power supply	100/115/230V, 50 .. 60 Hz
connector	IEC inlet
connection cable (ELE - POS)	1 per axis, length: 2m
Software Drivers	
driver options	directly through a JSON-based REST API Wrappers for Python, LabVIEW, Matlab, C-Library (Windows/Lin)
Output Signals	
output voltage range	stepping : 0..65 V; fine positioning : ± 65 VDC
frequency range	stepping : 0 .. 5 kHz (1 axis); stepping : 0 .. 2 kHz (3 axes simultaneously)
output current	stepping : max > 16 A peak
maximum capacitance load	2 µF
setpoint bandwidth	20 Hz
output noise	stepping: < 5 mVpp, fine positioning: < 1.3 mVpp (both 500 kHz bandwidth)
resolution of signal generation	680 µV (16 bit)
Trigger Signals	
trigger level definition	LVDS, LVTTL
input trigger	1 per axis
trigger interface	GPIO - port
Remote Controller	
type of remote controller	DS4 Dualshock controller
modes of movement	single steps and continuous movement (via stick)
wireless range	10 meters in free space
connection	Bluetooth or cable
Features and Upgrades	
dual-channel upgrade	activation of the second axis connector for positioners
tri-channel upgrade	activation of the second and third axis connector for positioners
/PRO feature (always included)	enhanced functionalities and control for closed loop operation
/IO feature (always included)	realtime interfacing with external signals (through GPIO port)