

Product-Specifications

Products	Digital Controllers for Piezo-Actuators/Displacement-Sensors		
Product Numbers	EBD/EBC-1203n (n=number of channels *10)	Unit	Tolerance
Channels	1, 2, 3; 3.5 (3.5 = 3 closed-loop, 1 open-loop)		
Output Voltage for Piezo	-45 to +180	V	max.
Sensors	Strain-Gages (SGS, models EBD) or Capacitive (Cap, models EBC)		
Control Parameters	PID, 2 Notch Filters per channel		
Control Loop Time	10	µs	
Software/Support	nFControl Windows (7..11) GUI, API, C#, DLL, LabView, Python, Linux, µMgr, EPICS, etc.		
Resolution	20 bit		
Wave-Generators	arbitrary, 1..3 generators, up to 1024 tables		
Data-Recorders	up to 16		
Memory	16M points for wave-/recorder-tables		
Current	300	mA	peak max.
Average Current	120	mA	max.
Protection	short circuit proof		
Supply	24 (2A min.)	VDC	
Digital Interfaces	Ethernet, USB 2.0, RS232, Parallel (optional)		
Analog Interfaces I/O	Input, -10 to +10, -5 to +5, 0 to 10, Output -5 to +5	V	18bit/±10V
Connection, Piezo and Sensor	DSub15f (1 CH), DSub25f (2, 3 CH)		
Connection, Analog I/O	2x BNC (1 CH), DSub15f (2, 3 CH versions)		
Connection, P/S	SwitchCraft RASPC10PS		
P/S, counter-socket	SwitchCraft PowerJack S10KS12		
Power Supply	external, included		
Ambient Temperature	+10 to +40	°C	
Design	aluminum black		
Dimensions, H x W x D	73 x 200 (215 incl. shackles) x 157.5 (plus interfaces)	mm	
Standards	2014/35/EU, Low Voltage Directive (LVD) 2014/30/EU, EMC Directive 2011/65/EU/ RoHS Directive Safety (Low Voltage Directive): IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016 EMC: EN 61326-1:2013 RoHS: EN IEC 63000:2018		



EBD/EBC-120310, 1 CH



EBD/EBC-1203n, 2/3/3.5 CH