

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® GUI, API, C#, DLL, LabView®, Python®, Linux® | | |
| 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