The MMD-100 is a multi-phase piezo driver with a pulse-direction input. It allows speeds beyond 2 mm/s. Open and closed loop operations are available. The modular design of the MMD-100 allows for a mixed module stack with the MMC-100 controller that can interface with a computer via a single USB or RS-485 cable. MICRONIX Motion Control Language allows for easy programming through simple ASCII commands.

KEY FEATURES

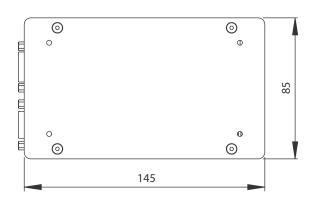
- Compact, modular design allows for bench-top or 2U height rack mounting
- MMD-100 and MMC-100 modules can be mixed in a stack
- Open loop resolution down to 1 nm
- Closed loop resolution down to 1 nm (dependent on encoder)
- A quad B differential or sin/cos analog encoder feedback
- Pulse and direction input signals via mini-DIN connector

TECHNICAL DATA

| Axes | 1, stackable up to 16 | |
|-----------------------|--------------------------------------------------------------|--|
| Motor type | Piezo Motor, PM-002 | |
| Interface | USB 2.0 or RS-485 (configuration), mini-DIN (driver signals) | |
| Commands | ASCII commands | |
| Power supply | Regulated 5 V DC (1 A per axis) | |
| Speed, max | > 2 mm/s (stage dependent) | |
| Resolution | 1 nm (open loop), 1 nm (closed loop) | |
| Servo clock frequency | 20 kHz | |
| Enclosure dimensions | L145 x W85 x H25 mm | |

| ORDERING INFORMA | TION MMD-100- 0 | 0 |
|-------------------|----------------------------------------------------|---|
| AXES | 1 Axis 1 : : : : : : : : : : : : : : : | |
| POWER SUPPLY | 5 W 0 ——————————————————————————— | |
| ENCODER INTERFACE | Analog (1 V _{pp}) 0 — Digital (RS-422) 1 | |





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| Axes | Н |
|------|-------|
| 1 | 24.4 |
| 2 | 41.2 |
| 3 | 58 |
| 4 | 74.8 |
| 5 | 91.6 |
| 6 | 108.4 |

