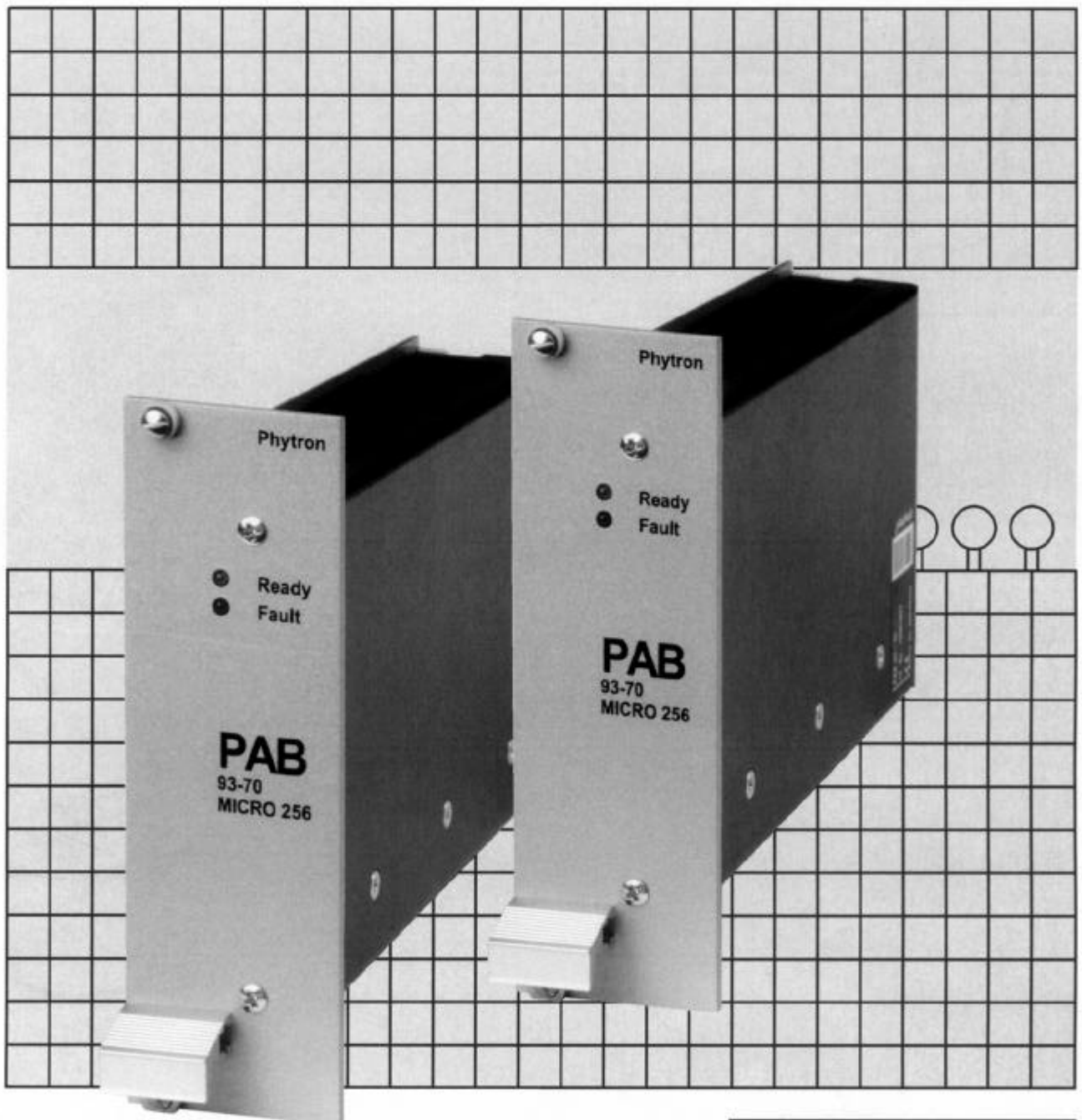


New

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PAB 93-70 MICRO 256 Stepper Motor Power Stage with Service Bus



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Dimensions



PAB 93-70 MICRO 256 – The Power Stage with a Service Bus

- Microstepping power stage to drive two-phase stepper motors in a bipolar mode (4-, 6- or 8-lead wiring)
- Phase currents up to $9 A_{PEAK}$, programmable in 63 levels
- Run, stop and boost currents are individually programmable
- Motor voltage 24 to 70 V_{DC}, maximum continuous voltage 85 V_{DC}
- Step resolution from full step down to 1/256 microsteps
- Service bus:
 - Programming of power stage parameters and settings
 - Online diagnostics for safe operation and easy maintenance
 - Configuration by software via 4-wire RS485 bus, optically insulated from the motor voltage
 - Parameter memory to hold data safely
 - Setting switch to select the axis address
- Pulse/direction interface with RS422 levels, open collector can be used if required
- Only one supply voltage, an internal power supply generates all auxiliary voltages
- Diagnostic LEDs: Ready, Error, more status information via bus interface
- Optional:
 - TEO module to monitor the motor's temperature

Optional TEO Module

To monitor the motor's temperature with vacuum or cryogenic stepper motors

- Vacuum stepper motors: overheating protection, monitoring of de-gassing procedures
- Cryo stepper motors: monitoring of heat dissipation and actual temperature
- Prepared for stepper motors with built-in type K thermoelement or Type Pt100 platinum sensor
- Reference point compensation circuit on the TEO module
- Evaluation in the temperature range 20 to 300 °C with K-type element, –200 °C to +200 °C with Pt100 sensor
- For use in: vacuum systems with stepper motors, de-gassing of vacuum stepper motors

Overview: 3 Axes PAB with Service Bus and Stepper Motors

