



PRESS RELEASE
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The E-482 Power Amplifier/Controller

*For applications, such as material testing for quality control purposes or highly dynamic control of valves in test stands, **PI (Physik Instrumente)** presents the E-482, a new high-power piezo amplifier/controller with 6A peak current at 1050V voltage swing.*

The 19-inch bench-top amplifier is especially designed for the operation of piezo actuators with high electrical capacitance, such as the PICA piezo actuator series P-225 and P-235. This class D switching amplifier modulates the pulse width of the control signal and thus controls the piezo output voltage.

When the piezo actuator is discharged, a patented circuitry for energy recovery stores the returning energy in a capacitor and makes it reusable for the next charging cycle. Thus, the E-482 achieves high efficiency with peak currents of up to 6A and average currents of up to 2A. In comparison with analogue amplifiers, this type of energy recovery allows energy savings of up to 80%. Furthermore, the amplifier does not heat up as much and consequently influences the actual application less.

The output voltage range of 0 to 1050V can be set to bipolar on request.

For more information, contact **Warsash Scientific** on +61 2 9319 0122 or sales@warsash.com.au.

