



TPOTM

TPO 100/200 Series

Sonic Concepts' Transducer Power Output (TPO) Series Class AB is a one-stop solution for your ultrasound instrumentation setup, offering ultrasound researchers and developers with a user-friendly, portable, and high-power system for "plug -and-play" with single- or multiple-element transducers.

The TPO series includes a touch-sensitive display and an easy-to-use menu system to drive 1 to 32 RF channels within a compact housing. Each RF drive amplifier allows continuous or pulsed power at any frequency from 100 KHz to 10 MHz. The system is equipped with multi-channel algorithms used to steer the acoustic focus and/or to dither the acoustic field.

Hardware Features

- Touch-sensitive front display panel
- Compact RF shielded enclosure
- On/Off power switch
- Globally compatible power supply (100-240 VAC, 47-63 Hz)
- 1 to 32 channels
- Output connectors BNC(f)
- Start/Stop output switch
- USB port for software control
- Internal trigger with sync output connector BNC(f)
- External trigger
- Power up to 400 Watts/channel
- 100 KHz to 10 MHz frequency range

Optional Features

- Transmit steering
- Leakage current detection and system shut down
- Forward/reflected power monitoring

Built-in Parameters

- Variable pulse repetition rate
- Variable pulse duration
- Waveform ramping
- Treatment time
- Frequency, phase & power modulation for focal dithering
- Internal temperature monitoring
- Protection circuitry: Output open/short & over temperature detection

