

PM-1
Power Meter



The PM-1 Power Meter monitors forward and reflected power in either CW or Pulse modes. It has a unique ability to function well with fast pulses. Information is displayed on the front panel, and can also be sent to the user's computer via standard RS-232 interface. Trip points can be set to alert the user if an undesirable forward or reverse power level occurs. The trip points can also be used to shut down the RF power generator, protecting expensive transducers from damage.

PM-1 Features:

- Protection for expensive transducers—guards against transducer failure with alarm sets.
- Reports forward, reverse and net power.
- Accurate within $\pm 5\%$ from 1.5-30 MHz.
- Peak Hold modes programmable for fast, medium and slow.
- Separate display and coupler/sensor boxes. Sensor can be remotely located at your amplifier or power generator.
- Forward power alarm with programmable trip point, LED and relay—alerts you that your power source has shut down.
- Reverse power alarm with programmable trip point, LED and relay—can shut down your power source.
- Bar graph that is easy to read and automatically adjusts the range to accommodate the data.
- Large vacuum fluorescent display.
- Programmable from front panel or via RS-232 interface.
- Accepts BNC, SO239 and Type N connectors.
- Display box: 8 1/4 x 3 1/2 x 4 1/4 inches (21 x 9 x 11 cm), 1.9 lb (0.8 kg)
Sensor box: 4 x 2 1/2 x 7 inches (10 x 6 x 18 cm), 0.9 lb (0.4 kg)

Specifications subject to change without notice.

Additional JJ&A HIFU products include:

- **RFG-100 RF Generator:** A compact, 100 watt RF Power Generator with frequency ranges available from 700 KHz to 5 MHz. Includes USB interface, CW and Pulse modes, and emergency shutdown circuit. Multiple units can be combined for phased or annular arrays.
- **RFG-1000 RF Generator:** Same features as the RFG-100, except the maximum power output is 1000 watts.
- **TMN-100 Transducer Matching Network:** Automatically computes the proper impedance transformation between the power source and transducer without the need for additional inductors and capacitors.
- **PF-500 RF Power Fuse:** This module is a stand-alone RF power sentry used to protect transducers from accidental overpower damage. Placed in-line between the RF power generator and the transducer, it passes the signal unless the power level exceeds the desired limits.
- **DC-1000 Directional Coupler:** Used to isolate transmitted and received signals, or can be used alone to feed a receiver.
- **FS-1 Foot Switch:** Accessory for use during experiments to control when the power generators are on.
- **HWS-1 HIFU Work Station:** Wet-lab work area with adjustable arms and clamps for holding transducers, test gels, cameras, etc. Includes a high intensity illuminator, digital camera for still and video with USB interface, plus a stand-alone video screen on the workstation that is used to zoom in and adjust the experiment during setup. Work area is 18 x 24 inches (46 x 61 cm).