



HIGH POWER PULSER HPP2000

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Product Features



- ▶ Broadband, high power pulser
- ▶ Design for use with guided wave EMATs
- ▶ Complimentary with Sonemat's SAA1000 amplifier
- ▶ Compatible with Sonemat's guided wave probe range

The HPP2000 High Power Broadband Pulser and SAA1000 Standalone Amplifier are a complimentary pair of electronic devices designed for operation of electromagnetic acoustic transducers (EMATs) in a laboratory or light industrial environment.

The HPP2000 generates a broadband pulser with a short time resolution (approx. 1 cycle) and frequency content mainly below 1 MHz. Pulser repetition rate can be controlled via an external trigger (5–50Hz). Caution: at higher pulser rates (>30Hz) for long periods the coil of wire within the EMAT may get too hot and cause damage.

Applications



Energy
Generation



Rail



Tanks and
vessels



Pipelines



Oil and Gas

Guided waves can achieve greater inspection ranges than conventional UT methods as they utilise the component structure as a waveguide. They provide greater coverage throughout the thickness of the structure and ability to inspect hidden or inaccessible regions of the test structure, such as rails, pipelines, storage tanks, pressure vessels.

- Lamb, Rayleigh, SH, Torsional wave probes
- Corrosion Monitoring, under pipe supports
- Weld defect inspection
- Surface inspection (Rayleigh)
- Rail track or rail wheel stress
- Boiler Tube Inspection



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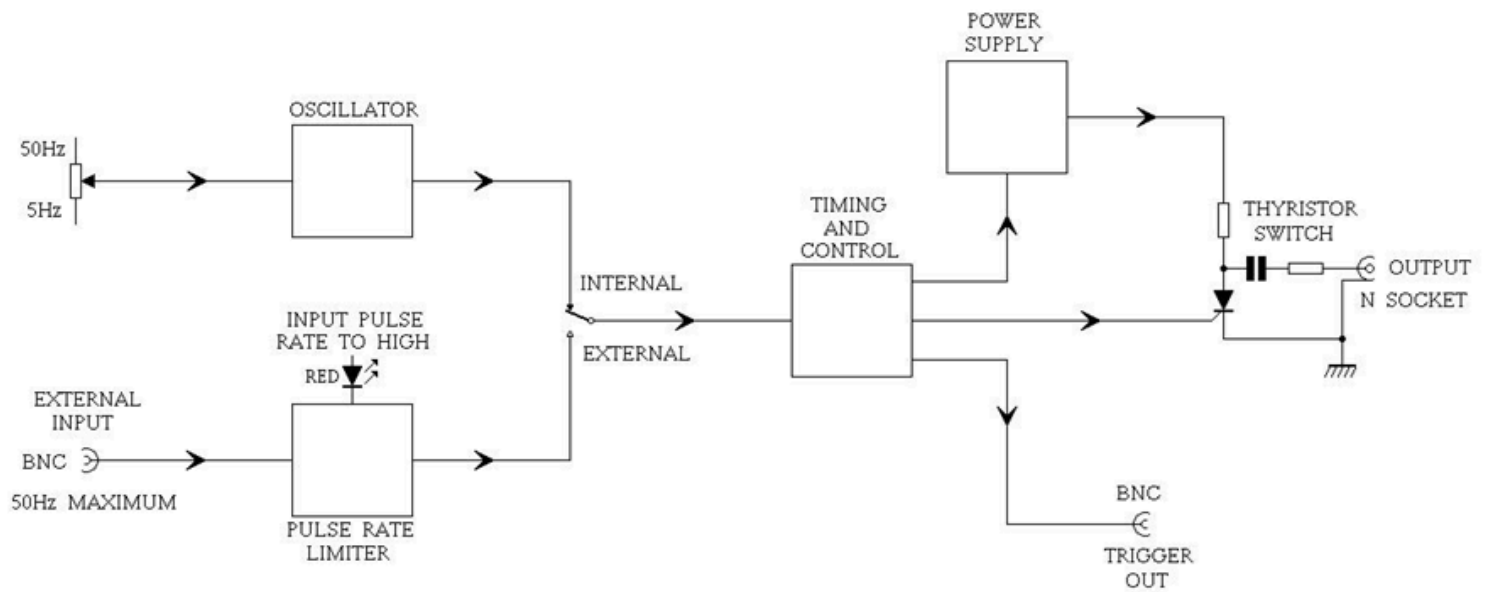
UK
CA



Feature	Description
Pulse Frequency/Bandwidth	Broadband pulse with short time resolution (approx. 1 cycle), frequency content between 0 – 1MHz
Pulse Repetition Rate	Controlled by dial, between 1 – 30Hz
Trigger	External or Internal Trigger
Dimensions	380 x 310 x 140mm (L x W x D) approx.
Weight	5.2kg
Storage temp.	-10°C TO +60°C
Operating temp.	0°C TO +40°C
Power	220–250V, 50Hz AC – UK/Europe/China Mains Power Supply
Connections	1 x BNC coaxial connector
Compatibility	Generally for use with Sonemat's guided wave EMATs – careful of EMAT coil wire width, if too narrow coils can be damaged due to high power

The HPP2000 is designed for UK/Europe/China mains power (220–250 V 50 Hz AC). Please ensure an appropriate plug and fuse are fitted for the operating country.

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