



The Model 600 Pulser can be used to provide high voltage pulses to an AE transducer for the purpose of simulating AE from crack growth at a particular location. It can be powered by a laboratory DC power supply with +15 volts DC. Power can also be supplied via a BNC connector at the rear of more recent versions of the AESMART 2000 hardware unit, or by connection to the trigger channel of a MUX-MODULE. The pulser can also be powered with the model 600B companion battery pack.

Two levels of voltage and an off position are selectable via a three position switch. Selectable voltage levels are 150 volts and 400 volts. Selection of the 150 volt position into a DECI SE25-P transducer as a transmitter gives signal levels comparable to the breaking of a 0.5mm pentil pencil lead. The use of this combination with the SE25-P transducer mounted on the edge of the plate in a structure under tests provides IP signals to test the efficiency of HF/LF ratio filtering in eliminating extraneous noise while still having the capability of detecting crack growth signals in the structure.

When a voltage position is selected pulses of the selected voltage are output at 1 second intervals.

MODEL 600 PULSER

SPECIFICATIONS:

PHYSICAL SIZE	31.2mm Dia. X 75mm long
WEIGHT	200 grams
MATERIAL	304 stainless steel
POWER REQUIREMENTS	+15 volts DC, 25ma current. (will operate from +5V to+30V)
OUTPUT	150V or 400V pulses @ 1 second intervals. Rise time 100 nanoseconds, duration 1 microsecond –no load condition. SYNC: TTL Positive pulse
CONNECTORS	BNC
TEMPERATURE	-50 TO +50° C
ACCESSORY	Model 600B Battery pack and SE25-P transducer



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