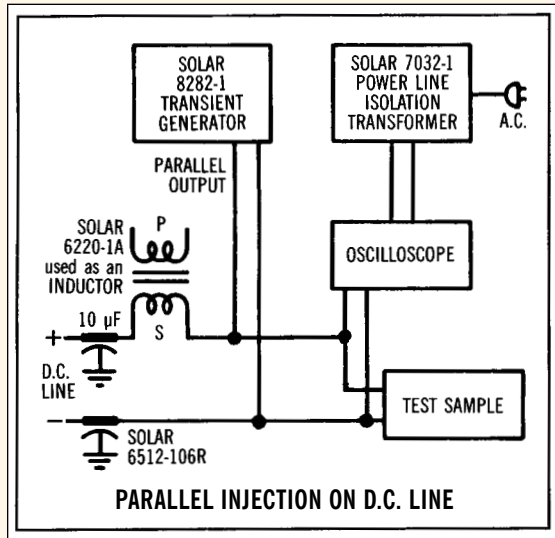


MODEL 8282-1 TRANSIENT PULSE GENERATOR

- Adjustable pulse position on a.c. power lines relates the transient susceptibility to the real time aspects of digital circuitry served by a.c. power.
- Transients can be injected in synchronism with repetitive circuit functions as required by **Method CS06** of MIL-STD-462.
- Remote triggering of single or repetitive pulses in terms of particular system characteristics.
- The upper terminals of the PARALLEL pair and the SERIES pair provide a positive-going spike on the 5 μ S and the 10 μ S modes. These terminals deliver a negative-going spike in the 0.15 μ S mode. When the test plan requires both a positive and a negative spike, it is necessary to reverse the connections to the output terminals of the **Model 8282-1 Spike Generator**.

SPECIFICATIONS

Spike Durations: Pushbutton selectable durations of 0.15 μ S, 5.0 μ S and 10.0 μ S ($\pm 20\%$) to zero crossover, into 5.0 ohm resistive load.



Adjustable Peak Amplitude: Up to 600 volts for 0.15 μ S, 5.0 μ S and 10.0 μ S durations into five ohm non-inductive load.

Internal Impedance: Less than 5.0 ohms for 0.15 μ S, less than 2.0 ohms for 5.0 μ S, less than 1.0 ohm for 10.0 μ S.

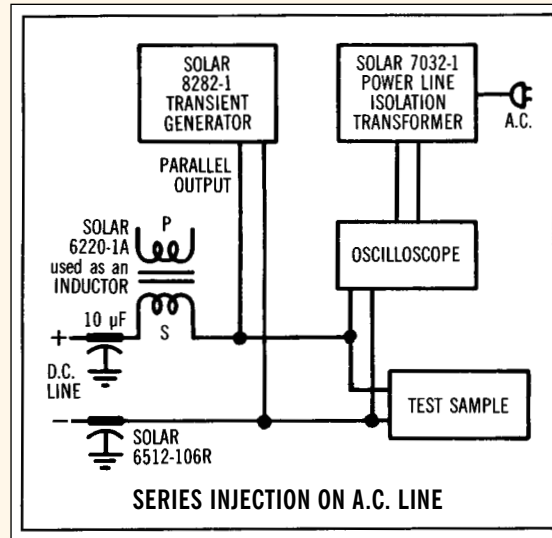
Pulse Repetition Rate: Manually adjustable up to 50 p.p.s. for all pulse durations.

Pulse Shape: Ringing characteristic similar to Figure 19 in MIL-STD-462 when connected to non-inductive load.

Pulse Position: Adjustable from 0° to 360° on 50 Hz, 60 Hz or 400 Hz power lines.

External Sync Operation: Remotely triggerable up to 50 p.p.s. for 0.15 μ S, up to 1000 p.p.s. for 5.0 and 10.0 μ S.

Amplitude Display: Panel meter is analog LED display of peak amplitude as it would be into a five ohm resistive load.



Power Current in Series Injection Mode: Handles up to 50 amperes of current at power frequencies.

Power Requirements: 115 volts 60 Hz, 3.0 amperes. (230 volts 50 Hz, 1.5 ampere available.)

Size: 12.25" wide, 8.7" high 13" deep. (311 mm x 211 mm x 330 mm.)

Weight: 30 pounds.

USEFUL ACCESSORIES

Type 7115-2 High Voltage Pulse Transformer. Plugs into SERIES output terminals to provide transient levels up to 15 KV, peak, into **Type 7510-1** Spark Gap assembly for static discharge tests.

Type 7512-1 Spike Injection Probe*

Type 7519-1 Pulse Shaping Network*

Type 7541-1 Spike Receptor Probe*

Type 8282-150 Transient Pulse Transformer. Plugs into SERIES output terminals. Handles up to 150 amperes through the secondary for high current test samples.

Type 8525-1 Non-Inductive Five Ohm Load

Type 8527-2 Transient Pulse Transformer. Plugs into SERIES output terminals to provide spike levels up to 2 KV, peak, into 50 ohms when using the ten microsecond function.

Type 8908-1 Transient Pulse Transformer. Plugs into series output to provide up to 600 V spike into 50 ohms when using 5 μ S or 10 μ S function.

Type 9007-1 Transient Pulse Transformer. Plugs into SERIES output terminals to provide spike levels up to 1200 V into 50 ohms when using the 0.15 microsecond function.

* See Application Note on Cable Induced Transients

