

# Model 40168

## 50 kV Precision Trigger Generator



### APPLICATIONS:

The 40168 trigger generator has been designed primarily as a low-impedance, high-voltage trigger source for Marx generators, capacitor banks, and single or multiple switches. It can also be used as a low-impedance pulser for a variety of applications such as electromagnetic pulse injectors or laser excitation.

### SPECIFICATIONS:

• Output Voltage into open circuit	50kV
• Output Polarity	Negative or positive
• Output Pulse Rise time (10 to 90%)	<10ns
• Jitter Sigma (single shot)	<3ns
• Jitter Sigma (10pps)	<10ns
• Insertion delay	<225ns
• Sync output	+10 V into 50 ohms
• Maximum Rep-rate	10pps
• Outputs	One or two 50 ohm coax cables
• Trigger input (external)	+10 V, rise time <10ns, 50 ohms
• Trigger input (internal)	Front panel push button
• AC power requirements	95-130 VAC, 60Hz, 235 watts
• Size and weight of chassis	19" x 8.75" x 23", 70 lb.
• Size and weight, HV section	5" x 10" x 7", 25 lb.

### FEATURES:

- Self-contained gas control panel with regulator, gauge, flow meter, and filters.
- Repetition rates up to 10pps
- Standard 19" rack-mountable.



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## **OUTPUT POLARITY:**

- All units are shipped with positive polarity unless otherwise specified.

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## **OUTPUT CABLES:**

- All units are shipped with one 20 foot output cable. Additional output or longer output cables are available upon request at an additional cost.

