

Trigger generator 50 kV



This generator has been designed as a trigger source for Marx generators and for trigatrons (triggered spark gaps). It can replace the obsolete PT55 trigger generator as mechanical dimensions and attachment points are the same. The advantages of our generator are:

- Solid-state switch
- High repetition rate
- Very long lifetime
- No need of gas
- No need of external high voltage power supply
- Can be triggered by a 5 V digital signal or by fibre optic

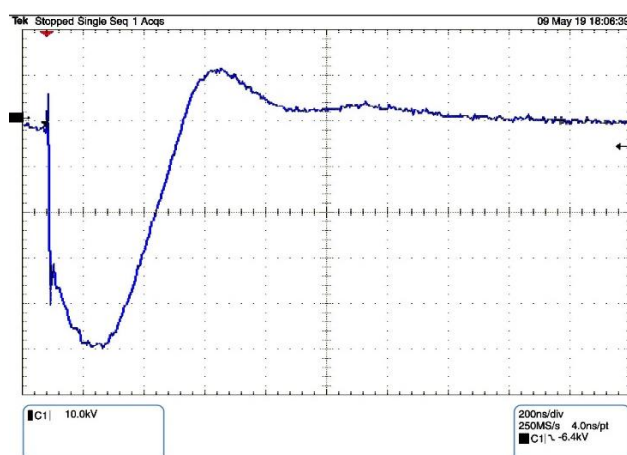


Figure 1: Output pulse waveform (10 kV/div - 200 ns/div)

SPECIFICATIONS

Type	GT50KN-EL
Peak output voltage	50 kV
Pulse duration	400 ns
Rise time (10 - 90 %)	3 ns
Overall jitter	3 ns (standard deviation)
Pulse repetition rate	min 2.5 s
Polarity	negative; positive as an option
Control input (Sub-D 9 poles)	24 V _{dc}
Optical input	ST
HV pulse output	Threaded stud M10 x 1.5
Measurement output (BNC)	shunt 1000:1 / 50 Ω
Power rating	24 V _{dc} / < 100 mA
Dimensions	17 x 17 x 17 cm (L x H x W)
Typical Lifetime	Tests in progress
Weight	4.6 kg

Other models upon request (for instance: higher output voltage or higher repetition rate).

Ordering information

TYPE	DESCRIPTION
GT50KN-EL	trigger generator 50 kV, negative polarity, solid state switching