

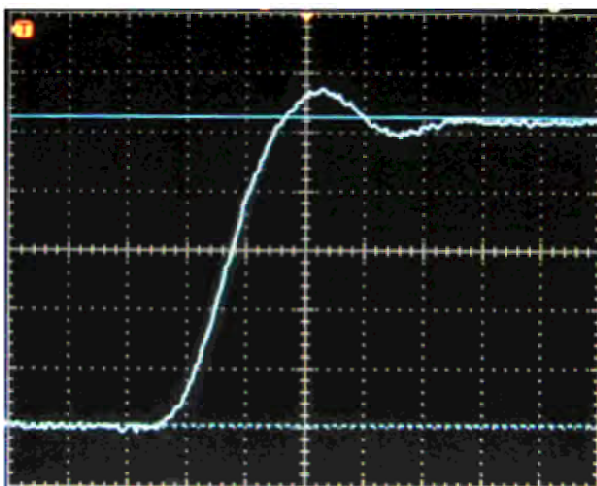


Applications

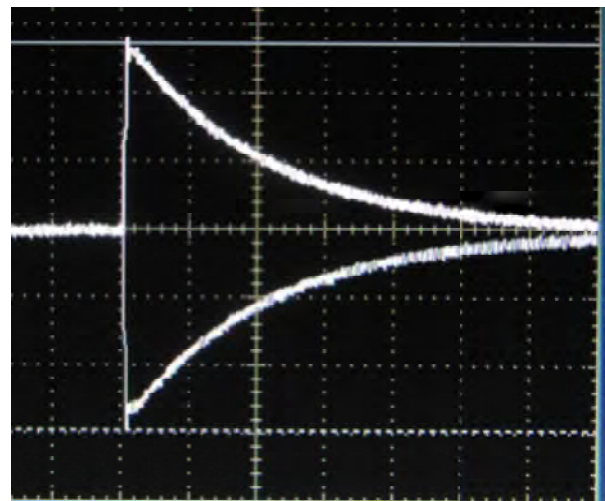
Ice Probing radar
Ground Probing Radar

Summary

- Low voltage power requirement for battery use.
- $\pm 2\text{kV}$ step outputs to drive a balanced differential antenna
- Internal rate generator
- tested at -20°C



Step output, 500V/4ns per division



Both outputs, 500V/400ns per division

See www.kentech.co.uk

SPECIFICATIONS

+/-2kV, ~5 ns step rise, exponential fall
Loading in pulser 800 Ω each side
Balanced outputs (2kV each, 4kV differential)
12V battery powered (9-18V)
Internal adjustable rate generator
Fibre-optic trigger output (HFBR-1412TMZ or equivalent emitter)
Additional electrical trigger output, BNC connector, amplitude ~5volts
Current consumption 5amps
Temp range -20C to +25C *
Housing - metal die cast box, 175 x 275 x 65mm.
Power input and pulse output connections - 3.5mm terminals

Normal operation

Output pulse characteristics set by 1nF series capacitors and 800 Ω loading
PRF 1kHz

Enhanced PRF operation

Output pulse characteristics set by 200pF series capacitors and 800 Ω loading.
PRF 5kHz

It is possible for the user to change the series capacitor and the PRF with only simple hand tools. This operation is not recommended in the open air.

CONNECTIONS AND CONTROLS

12V Input Power 3.5mm terminals, 9-18V
Fuse Holder 20mm 5A
Outputs 3.5mm terminals \pm 2kV pulse
Active Light Amber LED
Power Light Green LED
Monitor Output, 5V BNC, 5V 8 μ s pulse
Monitor Output, Optical, SMA, 8 μ s pulse.

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