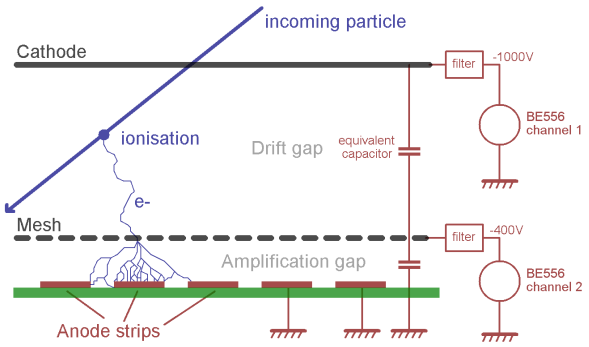
HV modular power supply for MicroMegas detectors

and other nuclear/particle physics applications

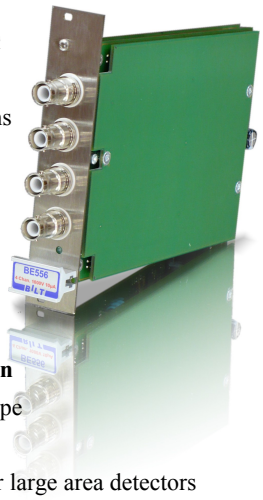
very low noise, high capacitive drive, spark detection, high integration

MicroMegas detectors



BE556 is ideal for all applications where low noise and high voltage are required: gaseous detectors, photomultipliers tubes, electron beam deflection, scintillation counters, HV capacitor leakage measurement, HV resistor measurement...

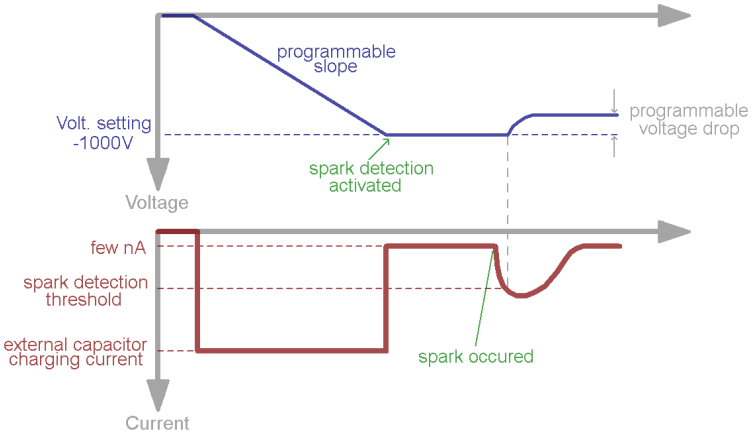
iTest BE556 HV module features



- 4 fully independent isolated DC sources in each module
- 1200V, 10µA or 100µA versions
- Negative or positive versions
- Resolution 20mV and 170pA
- 1nA absolute measurement accuracy at low current
- Very low noise, 5mVp-p typ.
- **Unlimited capacitive drive**
- **Programmable spark detection**
- Programmable rising/falling slope
- Labview™ drivers
- High integration: well suited for large area detectors allowed by bulk Micromegas

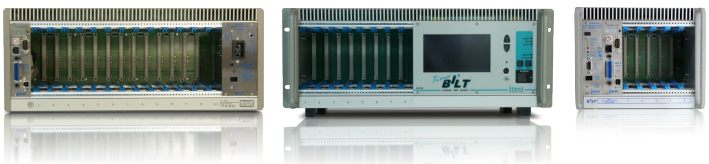
Capacitive load and spark detection

The BE556 module can cope with a high output capacitance, maintaining a stable and low noise output voltage. Any additional output filter can then be safely added at the source's outputs, the current measurement will remain stable thanks to internal digital filtering.
As soon as the output voltage has settled to its setting, the instantaneous output current is monitored. If the current exceeds a user programmable threshold (a spark occurred), the source is shut down or its output voltage decreases of a programmable value in order to quit the spark conditions.



Bilt system

- 5, 8 or 13 slot chassis
- Up to 52 HV sources in a single chassis
- Can be mixed with other iTest modules
- Large system connectivity: GPIB, USB, Ethernet, serial…



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