

**SOP Series**

**High voltage power supply for X-ray and Gamma ray waterproof field probes, diameter 27mm.**

*1 standard model*

**Vin : 9 to 15Vdc**

**Vout : -100 to -1800V**

**Input Current : 35mA to 42mA**

**Patented – Under licence from the French “Commissariat à l’Energie Atomique” (C.E.A.)**



Detection probe with SDS high voltage power supply integrated in it.\*

*The SOP Series are high voltage power supplies ideal for X-ray and Gamma ray probes used in low energy and X-ray detection applications. The SOP product consists in a compact assembly of 27mm of diameter. It is suitable for optical coupling to a photomultiplier tube. It operates from 9Vdc to 15Vdc. It integrates a high voltage power supply adjustable from -100V to -1800V.*

- X-ray and gamma detector
- NaI(Tl) or BGO scintillator
- Single voltage supply
- Discriminator included
- Output signal depending on nuclear event (option TTL)
- Available in spark free version
- Available in non-waterproof version
- Multidetector version available

**Possible applications**

- Gamma densimetry : oil drill sample, vacuum ratio, distribution residence time, etc.
- Industrial tomography : flow measurement in chemical piping and vessels, multiple detection (8, 24, 32).

**Technical specifications**

- The photomultiplier high voltage is adjustable to 1800 Volts through an inside potentiometer
- The discriminator is of the fixed threshold type
- The discriminator output is compatible with TTL (set to 50 Ohms)
- Probe Model SOP is fitted with a waterproof 3 pin connector

\* Note that we only provide the HVPS, the probe is not included.