

## Product Datasheet: Surge Diverter – PSD 100D

The PSD 100D Surge Diverter is a compact device for the protection of personnel and pipeline equipment from induced voltage surges caused by lightning strike and Low Frequency Induction (LFI).

They are typically installed across insulating joints.



### SPECIFICATIONS

Item	Data
Breakdown Voltage	90 v (± 30%) @ 100 v/Sec
Surge Life	100A =500 Surges (10/1000µs pulses)
Maximum Surge Current	30KA – 1 x 8/20µs pulses 20KA – 10 x 8/20µs pulses
Insulation resistance	>10,000MΩ
Dimensions (mm)	Body: 170 mm long x 35mm dia. Total weight with cable 350 grams
Cable	Supplied as standard with 16mm <sup>2</sup> Black insulated flexible cable 450mm each side. Custom lengths available.
Service Conditions	Gland rating IP68 – Dust Proof & Submersible. Operating Temperature range -30°C to +85°C

- Steady State (> 1sec) voltages in excess of 32 Vac, 115 Vdc, are hazardous to personnel. The PSD100D break down voltage is less than 100 volts and is designed to protect personnel as well as equipment.
- Surge Protection Devices (SPD) with threshold voltages >240 volts can provide protection for electrical equipment, but at >100 volts personnel are in a hazardous situation. SPD s with threshold voltages less than 2 volts DC can impede DCVG testing and some forms of pipe location testing.
- PSD100D has increased maximum surge current and replaces model PSD100C
- Suitable for DCVG Testing and high frequency pipe location due to the 100v breakdown voltage.

**Anode Engineering**  
30 Chetwynd Street  
Loganholme QLD 4129  
AUSTRALIA  
Ph: +61 7 3801 5521  
Email: [Sales@Anodeengineering.com](mailto:Sales@Anodeengineering.com)  
[www.Anodeengineering.com](http://www.Anodeengineering.com)

**Lordco**  
59-61 Marsden Street  
Lower Hutt, Wellington 5045  
NEW ZEALAND  
Ph: +64 4 939 3944  
Email: [Sales@Lordco.co.nz](mailto:Sales@Lordco.co.nz)  
[www.Lordco.co.nz](http://www.Lordco.co.nz)