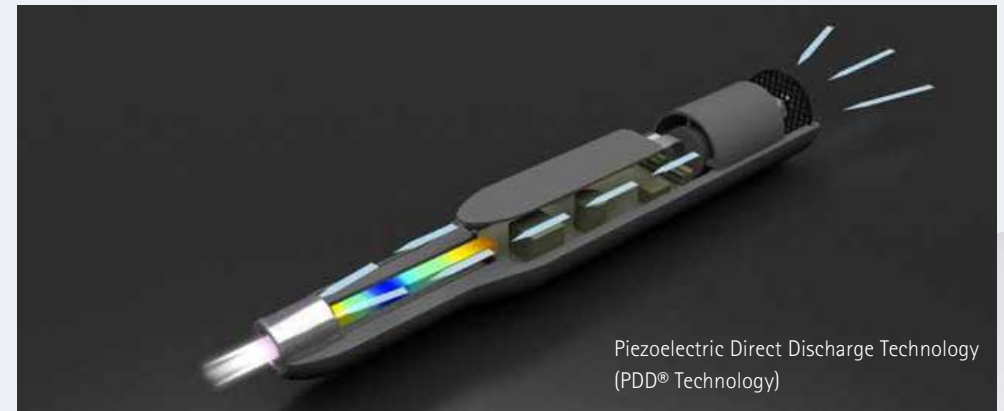


piezo brush[®] Hand-held device for universal application – it couldn't be any simpler ...



Technology

relyon plasma has developed PDD[®] technology specially for plasma generation which is particularly compact. PDD[®] (Piezoelectric Direct Discharge) is based on direct electrical discharge with a piezoelectric transformer (PT) which is operated openly.

With maximum efficiency, a low input voltage is transformed in such a way that very high electrical field strengths are created and the ambient process gas, typically air, is dissociated and ionised. In the case of PDD, the gas temperature in the plasma volume is typically at ambient temperature 300,+20 K.

Electron densities of approx. 10¹⁴ and 10¹⁶ m⁻³ are achieved. In this way, PDD produces a typical "cold" non-equilibrium plasma.

The properties of PDD[®] therefore open up a multitude of application possibilities. PDD devices are used in medical research for germ reduction, odour reduction and in microbiology.

Typical industrial applications include surface activation for the optimisation of wetting and bonding properties in the case of plastics, e.g. in printing, coating and bonding processes.

Applications

- Medical research
- Microbiological processes, germ reduction, odour reduction
- The pharmaceutical industry
- Life science
- Food processing
- Surface activation for the optimisation of wetting and bonding properties in the case of plastics, e.g. in printing, coating and bonding processes.

Features

- Simple to use
- No external gas supply required
- Cold active plasma
- Maximum operational reliability
- Optimum efficiency
- Variable nozzles

Technical Information

Electrical connection	110–240 V/50–60 Hz 15 V DC
Power requirement	max. 30 W
Specification	Hand-held device with power supply unit
Weight	170 g

Supply

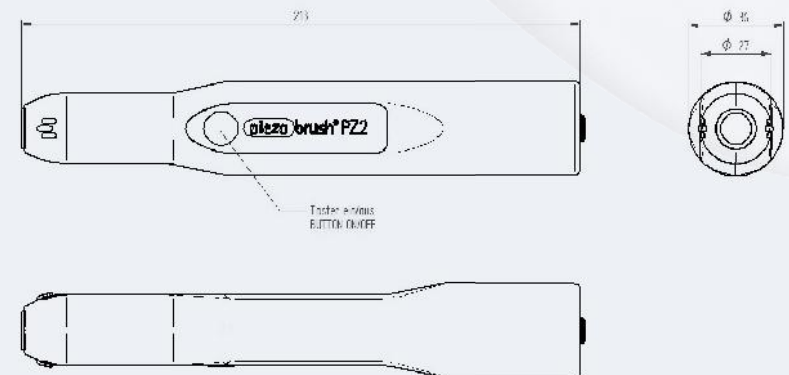
- Integrated ventilator

Application parameters

Plasma temperature	< 50 °C
Typical treatment distance	5 to 10 mm
Typical treatment width	20 to 35 mm

Set contains:

- Multirange power supply unit
- Replacement nozzles
- Transport case



... plug in, switch on and it's ready to use