



## Effective plasma device for manual use

The piezobrush® has been developed as a compact plasma handheld device for use in laboratories, pre-development and assembly of small series. The Piezoelectric Direct Discharge (PDD®) technology is used to generate cold active plasma with a temperature of less than 50°C. The core of this handheld plasma device is the TDK CeraPlas™ piezo plasma generator – a high-voltage discharge device for generating cold atmospheric pressure plasma. Plasma is used for a highly efficient increase of surface energy on many materials as well as for germ and odour reduction.

### Fields of application

- ◇ Joining technology
- ◇ Development and optimization of production processes
- ◇ Research facilities and laboratories
- ◇ Microbiology, microfluidics and food technology
- ◇ Medical and dental technology
- ◇ Prototyping, architecture model making
- ◇ Small batch production

### Possible usecases

- ◇ Activation and functionalization of surfaces of miscellaneous materials
- ◇ Improved wettability
- ◇ Optimization of bonding, varnishing, printing and coating processes
- ◇ Surface treatment of plastics, glasses, ceramics, semiconductors and natural fibres
- ◇ Ultra-fine cleaning and odour reduction

### piezobrush® PZ2

Handheld device with power supply and changeable nozzles



No process control available  
110-240 V / 50-60 Hz 15 V DC  
max. 30 W  
170 g  
57 dB  
< 50 °C  
4 cm<sup>2</sup>/s  
2 - 10 mm  
20 mm

Standard, Nearfield, Multigas / Needle  
Argon, helium and nitrogen



### piezobrush® PZ3

Handheld device with power supply and changeable piezo module



Process control  
Electrical connection  
Power consumption  
Weight  
Sound level  
Plasma temperature  
Treatment speed  
Typical treatment distance  
Max. treatment width  
Modules  
Operation mode with inerte gas

Stopwatch, Countdown, Metronome  
110-240 V / 50-60 Hz 24 V DC  
max. 15 W

110 g  
45 dB  
< 50 °C  
5 cm<sup>2</sup>/s  
2 - 10 mm  
29 mm

Standard, Nearfield (further from July 2022)  
not yet available



relyon plasma GmbH  
A TDK Group Company  
Osterhofener Straße 6  
93055 Regensburg – Germany

Ph.: +49 941 60098-0  
Fax: +49 941 60098-100  
www.relyon-plasma.com  
info@relyon-plasma.com

**relyon** plasma®  
A TDK GROUP COMPANY