

Product Brief 2019

Piezobrush[®] – Handheld Cold Plasma Device

For Use in Laboratories, Prototyping, Crafts, R&D and Industrial Applications

TDK offers the small handheld cold plasma device with easy-to-use functionality.

Transforming surface properties to optimize processes like gluing, printing or varnishing has never been easier. A short treatment with Piezobrush makes even liquid-repellent materials like polycarbonate easily wettable and ready for improved processing, making chemical primers unnecessary.

That's not all that Piezobrush can do: The piezoelectric discharge and resulting cold plasma generated at the tip of the pen-like device is capable of fine cleaning and

even decontaminating surfaces and cavities in a wide range of environments, including medical devices.

The Piezobrush is compatible with almost every material and optimized for user-friendliness. Functional nozzles for different application processes are included in the package. No other plasma process is more efficient for surface treatment in terms of power consumption.

Benefits

- Cleaner printing
- Securely bonding
- Effective sterilization



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Applications

PDD technology opens up a wide range of applications

Surface activation

Laboratory and dental technology, model making, precision engineering, micromechanics, optics, installation technology, electronics

Printing and gluing

Inkjet, pad printing, encoding, micro filling, wettability for automatic processes

Sterilization

Microbiology, food technology, medical technology, microfluid technology

Features



PZ2



Plug socket



Handheld

- No external gas supply required
- Cold active plasma
- Easy-to-use, user-friendly, ergonomically designed
- Maximum operating reliability
- Optimum efficiency
- Plug-in power supply
- Replacement nozzles included (standard, nearfield and multi-gas and needle nozzle)
- Based on CeraPlas™ technology
- Customized branding available on request



Technical data

Electrical connection	110 ... 240 V / 50 ... 60 Hz, 15 V DC
Power consumption	Max. 30 W
Weight	170 g
Version	Handheld device with power supply and integrated fan
Plasma temperature	< +50 °C
Typical treatment distance	2 ... 10 mm
Typical treatment width	5 ... 20 mm
Ordering code	Z63000Z2910Z1Z62

TDK also offers additional solutions for cold plasma applications, ranging from small plasma sources to complete plasma cells, and from feasibility studies to the manufacturing of high power plasma generating systems. For more information contact your local sales office and also see www.tdk-electronics.tdk.com/plasma.

Important information: Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products. We expressly point out that these statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. This publication is only a brief product survey which may be changed from time to time. Our products are described in detail in our data sheets. The *Important notes* (www.tdk-electronics.tdk.com/ImportantNotes) and the product-specific *Cautions and warnings* must be observed. All relevant information is available through our sales offices.