PPP-CONTR

PointProbe® Plus Contact Mode

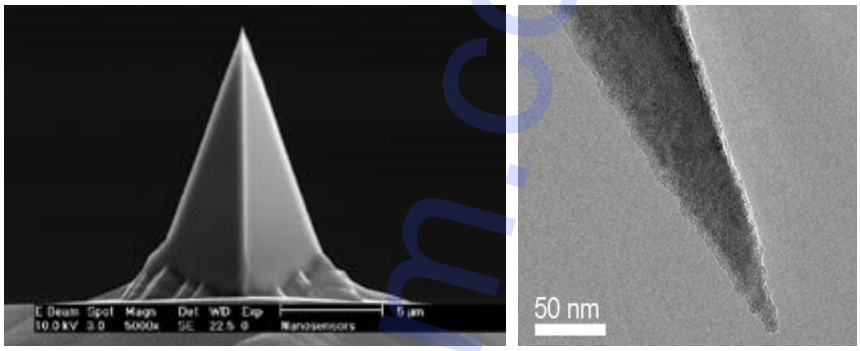
The new **P**oint**P**robe® **P**lus (PPP) combines the well-known features of the proven **PointProbe®** series such as high application versatility and compatibility with most commercial SPMs with a further reduced and more reproducible tip radius as well as a more defined tip shape. The typical tip radius of less than 7 nm and the minimized variation in tip shape provide more reproducible images and enhanced resolution.

NANOSENSORS™ PPP-CONTR AFM probes are designed for contact mode (repulsive mode) AFM imaging. This sensor can also be used for force-distance spectroscopy mode or pulsed force mode (PFM). The **PPP-CONTR** type is optimized for high sensitivity due to a low force constant.

The probe offers unique features:

- guaranteed tip radius of curvature < 10 nm
- highly doped to dissipate static charge
- Al coating on detector side of cantilever
- high mechanical Q-factor for high sensitivity

The reflex coating is an approximately 30 nm thick aluminum coating on the detector side of the cantilever which enhances the reflectivity of the laser beam by a factor of about 2.5. Furthermore it prevents light from interfering within the cantilever. The virtually stress-free coating is bending the cantilever less than 2% of the cantilever length.



Cantilever data:

Technical Data	Nominal Value	Specified Range
Thickness /µm	2	1.0 - 3.0
Mean Width /µm	50	42.5 - 57.5
Length /µm	450	440 - 460
Force Constant /(N/m)	0.2	0.02 - 0.77
Resonance Frequency /kHz	13	6 - 21

Order codes and shipping units:

Order Code	Quantity	Data Sheet	Coating
PPP-CONTR-10	10	of all probes	reflex
PPP-CONTR-20	20	of all probes	reflex
PPP-CONTR-50	50	without	reflex
PPP-CONTR-W	> 380	of up to 32 probes	reflex

For further information please contact your local distributor or **NANOSENSORS™** directly.
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