Nanonis Femto Preamp-Kit

PA-DLPCA-200

Nanonis's Femto-Preamp kit combines the well-known variable gain DLPCA-200 from Femto GmbH, Germany, with the appropriate adapter cables and software module to operate it directly from the Nanonis SPM Control System.

The amplifier gain is switchable between 10^3 and 10^9 for low noise measurements and between 10^5 and 10^{11} for high-speed applications. Both, gain and bandwidth, can be switched on the fly from the software which also takes care of the appropriate calibration of the tunnelling current. For each gain level the module saves the corresponding offset.

The amplifier is powered directly from the stabilized ±15 Vdc in the Nanonis SC4.

The package includes:
- Femto DLPCA-200 variable gain preamplifier
- Adaptation kit to connect the preamplifier to the Nanonis SPM Control System
- Software module to set the amplification and the correct current calibration

The package is ready for use with the Nanonis SPM Control System and is delivered with the appropriate software configuration.

Full specification of DLPCA-200 available from Femto GmbH, Germany.

GENERAL

•	code	DLPCA-200
•	power	±15 V from Nanonis SC4
•	gain	10^3 to 10^9 (low noise), 10^5 to 10^{11} (high speed)
•	gain switch	manual or via software
•	gain calibration	automatic when set via software
•	weight	320 gr. (0.74 lbs)
•	size	150 x 55 x 40 mm (L x W x H),
•	cables	4.5m meter coaxial cable, power and digital line
•	compliance	$C \in$

CONNECTORS

•	input	BNC
•	output	BNC

The preamplifier is powered from the Nanonis SC4 and controlled via digital lines that set gain and bandwidth and take care of the correct current calibration.

NANONIS
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