

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 103 and 109 for low noise measurements and between 105 and 1011 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 Signal Conditioning and Connector Box.

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 SCCB
• gain	103 and 109 (low noise), 105 and 1011 (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	2m meter coaxial cable, power and digital line
• compliance	CE

CONNECTORS

• input	BNC
• output	BNC



The preamplifier is powered from the Nanonis SCCB and controlled via a digital line that sets gain and bandwidth and takes care of the correct current calibration.

