New MEAs

Multi Channel Systems MCS GmbH
Reutlingen, Germany
Perforated MEAs

\[ p_1 > p_2 \]
\[ p_1 - p_2 = \Delta p \]
Perforated MEAs
6 Well MEAs
• 256 electrodes
• 16x16 grid
• 100µm spacing
• 30µm diameter
• 256 electrodes
• 16x16 grid
• 100µm spacing
• 30µm diameter
• large electrode surface
• low impedance
256 Channel MEA System

All In One Recording System

- 256 channel amplifier
- Integrated data acquisition
- USB 2.0 data transfer
256 Channel MEA System

* Pre- and filter amplifier with integrated data acquisition and analog-digital converter.
* Gain and bandwidth as specified in the order.
* Standard specifications: Gain: 1100, bandwidth: 1Hz- 3 kHz.
* Sampling rate max. 40 kHz per channel.
* Direct access to each electrode for stimulation via connectors.
* Integrated heating element and temperature sensor PT100.
* Digital Trigger In for synchronization between amplifier and MC_Rack (1 x C-BNC-Lemo)
* Digital IN / OUT: Interface for 16-bit digital input / output channels. Generates or accepts TTL-pulses.
* DIG OUT 0: Interface for input bit 0 of the 16-bit digital Input / output channels (1 x C-BNC-Lemo)
* Audio Out: Interface for connecting an audio system
* 4 x Analog IN: Interface for 4 additional analog inputs
* Universal Serial Bus 2.0 High Speed for transferring digitally converted data to any data acquisition computer with a sampling rate of up to 40 kHz/channel. (USB 2.0 High Speed cable).