

16-Channel Micro Preamplifier µPA16

16-Channel Micro Preamplifier µPA16 for Use with the Portable-ME-16-System

16-Channel Micro Preamplifier Inputs housing



Application

The micro preamplifier with 16 electrode inputs μ PA16 is connected to the microelectrode probes for providing the initial tenfold amplification stage. Signal integrity is safeguarded and noise pick up is significantly reduced by this preamplifier compared to the use of signal buffers with gain 1. The μ PA16 is equipped with an Omnetics socket for Neuro-Nexus probes C16, C32, F16, and CM16.It has an additional common ground and a reference electrode input. The reference electrode is ideally identical to the recording electrodes and placed into a comparable but inactive area or tissue.

Background or noise signals that are picked up by both the reference electrode and the recording electrodes are removed. The very high input impedance ensures stable long-term recordings.

16-Channel Micro Preamplifier Outputs



Output Connector 26-Pin HD D-Sub male connector (Harting TB 09 56 200 5615)

Pin	Channel	Pin	Channel	Pin
2	1	11	2	1, 10, 19, 23 GND (Ground)
3	3	12	4	
4	5	13	6	20, 21, 22 positive supply voltage
5	7	14	8	
6	9	15	10	24, 25, 26 negative supply voltage
7	11	16	12	
8	13	17	14	
9	15	18	16	

Multi Channel Systems MCS GmbH Aspenhaustrasse 21 72770 Reutlingen Germany Phone +49-7121-909 25- 0 Fax +49-7121-909 25-11 July 2021

sales@multichannelsystems.com www.multichannelsystems.com © 2021 Multi Channel Systems MCS GmbH a division of Harvard Bioscience, Inc.

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1 inch

Input Connector Omnetics

A79039-001(NSD-18-DD-GS with 2 guide posts, female)

Guide post	REF (Reference)
16	Pin 15
14	Pin 13
12	Pin 11
10	Pin 9
8	Pin 7
6	Pin 5
4	Pin 3
2	Pin 1
Guide post	GND (Ground)
	Guide post 16 14 12 10 8 6 4 2 Guide post



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