Müller Charge Amplifier-System MCPA 10

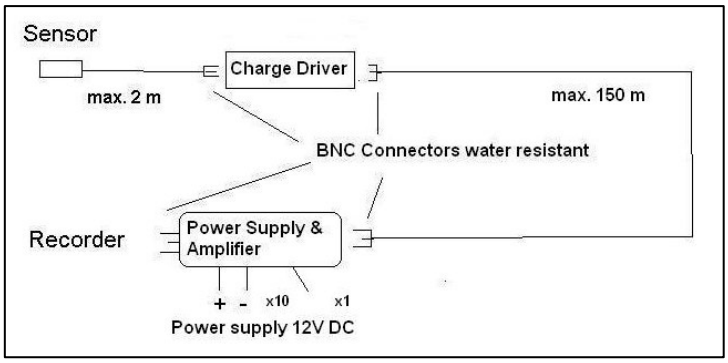
For In- and Outdoor Experiments with Piezoelectric Sensors Bandwidth 100 Hz to 10 MHz

Typical Applications

This unique amplifier was designed for shock and blast wave measurements as well as for amplification of any dynamic pressure changes. With its broad bandwidth from 100 Hz to 10 MHz it can exactly reproduce any pressure waves in shock tubes as well as in the field.

The system comes with two independent devices, the "Charge Driver" and the "Power Supply & Amplifier". The "Charge Driver" can drive long extension cables up to 150 m and is positioned close to the sensor. The Amplifier is connected directly to the recorder, needs an external 12 V power (incl.) and supplies the "Charge Driver". It is adjustable with a x1 or x10 amplification. The system is designed water protected for outdoor experiments.

This amplifier is ideal for high frequent piezoelectric sensors like our Müller-Platte Needle Probe or the pressure transducers M60 as well as for all other piezoelectric sensors.



Charge Amplifier with Charge Driver in the principal experimental set up

Specifications:

Charge driver (CD):	**Drives long cable extensions up to 150 m**
CD input:	**+/- 4 V max., 12 pF, 5 x 10^9 Ohm**
CD connection:	**Input and output BNC neg., water protected; housing aluminium**
Bandwidth:	**-3db, 100 Hz to 10 MHz for short cable up to 5 m 10 MHz bandwidth decreases with cable length: 4 MHz at 50 m, 1 MHz at 150 m**
Amplification:	**x1 or x10**
Amplifier housing:	**Aluminium**
Amplifier power supply:	**12 V DC, 60 mA via included charger**
Amplifier connections:	**Extension cable input BNC neg., recorder output BNC pos.**

Article No.:

200-302-1	**Müller Charge Amplifier MCPA 10, water protected**

Dr. Müller Instruments - Hasengarten 35 - D-61440 Oberursel - Germany
Phone: +49–(0)6172–380 37 27 - Fax: +49-(0)6172-177 077 4 - Internet: www.Mueller-Instruments.de

Dr. Müller Instruments GmbH & Co.KG Hasengarten 35 61440 Oberursel Germany
Tel.: 06172-380 3727 Fax: 06172-177 077 4 Handy: 0171-431 9060 info@Mueller-Instruments.de
www.Mueller-Instruments.de