

Product Name :
Multi Channel Measurement Amplifier**Product Code :**
ALABS-A179-105ALTEC™**Description :****Multi Channel Measurement Amplifier**

Stresses and strains occurring in components are determined in experimental stress and strain analysis by measuring strain. In industry, strain is often recorded by strain gauges. Since strain gauges deliver only small analogue measurement signals, the signals must be amplified in measurement amplifiers. Then they are converted into digital pulses and displayed as measured strain. These strains may also be evaluated and processed on computer. This is a multi-channel measurement amplifier which supplies the strain gauge bridge circuits with power and processes the received measurement signals. The unit can only be operated with a computer. The measurement amplifier includes 16 input channels and, by using a measuring point add-on unit, can be extended to a maximum of 32 input channels. The strain gauge measuring points are connected to associated balance potentiometers either by a 68-pin multiport or 16 (6-pin) single ports. The multi-channel measurement amplifier is operated via USB using the supplied software. The measured values can be read and saved on computer (using an application such as MS Excel).

Specification:

1. Multi-channel measurement amplifier for processing of strain gauge signals
2. Strain gauge connection in half or full bridge configuration
3. Strain gauge connection via 6-pin single ports or 68-pin multiports
4. Extension of measuring points possible.
5. Processing of measured values on a PC
6. Connection to the PC via USB

Technical Data:

Amplifier

- number of input channels: 16
- with measuring point add-on unit: max. 32 input channels

Strain gauge connection in half or full bridge configuration

- resistance: min. 350Ohm/strain gauge
- zero balancing: 20x spindle trimmer
- strain gauge supply voltage: +/-5VDC

Frequency range selectable via bridges

- 4Hz/500Hz (-3dB)

Input voltage: max. +/- 50mV



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