

MSA-6

Mini Amp

DESCRIPTION

The AMTI MSA-6 is a six channel strain gauge amplifier designed for use with AMTI's multi axis force platforms, multi component force and torque transducers or other strain gauge devices. It is a low cost, compact instrument capable of high resolution measurements. The MSA-6 features easy bridge balancing with a single push button auto zero. There is also a low pass fixed filter, jumper selectable precision bridge excitation voltages and jumper selectable gains for each channel.

The amplifier inputs and outputs are conveniently provided through single connectors. The output signal is rated to $\pm 10V$ and is suitable for input into an A/D converter or other device. This amplifier is designed primarily for use a computer aided data acquisition system and requires very little user interaction. Gain and voltage excitation are selectable via internal jumpers. All rack mounting hardware is included.



Technical Specifications

- **Gain** – Jumper selectable gains of 1000, 2000 or 4000 on each channel
- **Auto Zero** – Single push button or software balance
- **Filter** – Each channel has an antialiasing low pass filter with a 1000Hz cut off
- **Output** - $\pm 10V$ DC into a minimum 10K Ω load
- **Bridge Excitation** – Each channel is jumper selectable, providing 2.5, 5 or 10VDC (350 Ω bridge min)
- **Digital Output** – 12 bit
- **Synchronization** – via Genlock external trigger
- **Connections** – Digital output RS232 (via USB converter); Analogue output DB25S; Sync/ Genlock RCA phone; Input via 26 pin circular connector
- **Operating Temperature** - -18 $^{\circ}C$ to 52 $^{\circ}C$
- **Power Supply** – Supplied with 110 - 240VDC 50/60Hz external supply
- **Weight** – 2kgs
- **Dimensions** – 26cm x 21cm x 4cm