

AccuSway Dual Top

For Balance and Postural Sway Measurement



DESCRIPTION

AMTI's AccuSway Dual Top system is a complete solution for quantifying and evaluating human balance. The AccuSway Dual Top has two separate force platforms, one for each foot, on one base. The AccuSway Dual Top was developed and built to be economical, portable and easy to use.

The AccuSway Dual Top uses a Hall Effect based sensor design. This one piece sensor element provides extremely high overload protection on all axes.

The AccuSway Dual Top **measures the three forces (Fx, Fy, Fz) and the three moments (Mx, My, Mz)** involved in balance, providing outputs that allow easy computation of the center-of-pressure coordinates.

The AccuSway Dual Top

- provides separate surfaces for each foot
- can be used with a desktop or laptop computer
- plugs directly into the R232 serial port of the computer for digital acquisition (USB output available)
- analog outputs (+/- 10V), eight per platform
- contains complete built-in electronics
- has an external input that can be used to synchronize data
- lightweight
- low profile
- AMTI's NetForce data acquisition software included

EXTERNAL SYNC SIGNAL

When this dedicated digital input line is brought to ground, the platform's internal processor will transmit a unique data set to the PC.

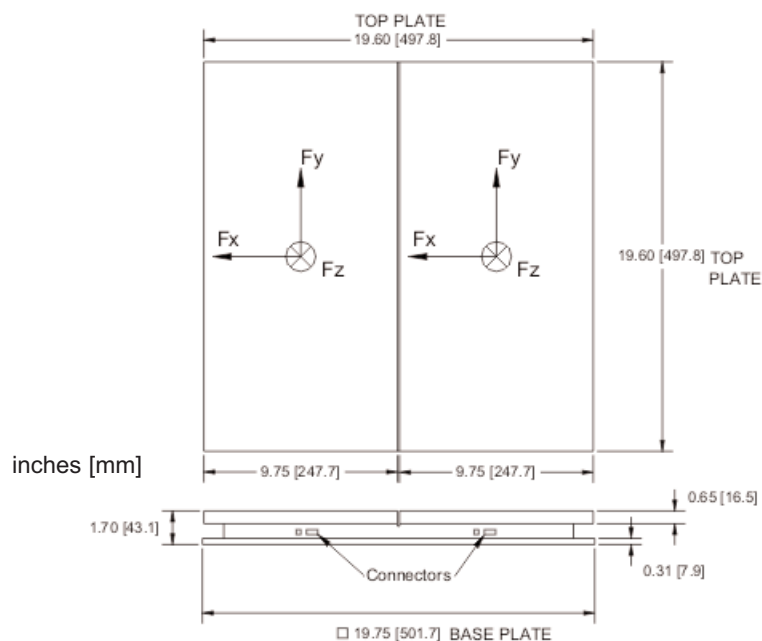
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AccuSway Dual Top Platform Specifications

Fz Capacity, lb (N)	400 (1800)
Fx, Fy Capacity, lb (N)	40 (180)
Mz Capacity, in-lb (Nm)	300 (34)
Mx Capacity, in-lb (Nm)	1200 (135)
My Capacity, in-lb (Nm)	600 (68)
Fz Natural Frequency	120 Hz
Fx, Fy Natural Frequency	100 Hz
Weight, lb (kg)	30 (13.6)
Digital Data Rate	Software selectable 50, 100, or 200 data sets per second. 12 bit resolution.
Interface	RS232 serial port, user selectable 57.6K or 115.2K Baud. Usable at up to 400 data sets per second at 230K Baud with USB converter.
External Sync Signal	Active = low volts, switch to ground (0-.9V). Inactive = high volts, open circuit with internal pull up resistor. Protected to +/- 18V. 1K Ohm input resistance.
Digital Data Transmission	Proprietary binary format
Power Supply	9VDC, 110V or 220V input power supply included
Minimum Computer Requirements	Windows 98 operating system, Pentium 450 MHz processor, 64 MB Ram, and an RS232 serial port. Also available for Windows 2000/Me/XP.
Filters	Fixed 200 Hz 2nd order analog filter on each channel.



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