

HE6X6

Low Load Miniature Force Platform



DESCRIPTION

AMTI's HE6X6* System is a compact solution for quantifying very low loads. The HE6X6 is accurate, economical, and easy to use with AMTI's powerful NetForce data acquisition software package. The HE6X6 features a 6" x 6" working surface and specific uses include human proprioception testing and small animal applications. The HE6X6 system features:

MULTI-COMPONENT MEASUREMENT

The platform measures the three forces (F_x , F_y , F_z) and the three moments (M_x , M_y , M_z).

HIGH OVERLOAD CAPACITY

One piece sensor element provides extremely high overload protection on all axes. Typically greater than 100x capacity.

DIGITAL OUTPUT

Built-in sensor electronics provide digital output, allowing the system output to be directly plugged into an RS-232 serial port, interface box included. USB output available.

ANALOG OUTPUT

Eight channels of ± 10 Volt range are provided corresponding to F_{z1} , F_{z2} , F_{z3} , F_{z4} , F_{x1} , F_{x2} , F_{y1} , and F_{y2} . They may be summed in software to provide F_x , F_y , F_z , M_x , M_y , and M_z .

NO MOUNTING NECESSARY

Top & bottom mounting holes are provided but are not needed for many applications.

- Four top surface 4-40 threaded holes on 5.250" (133.35 mm) centers.
- Four bottom surface 8-32 threaded holes on 5.250" (133.35 mm) centers.

MINIMAL COMPONENTS

Only the platform, cable, power supply interface box, and a computer are needed to collect data.

SOFTWARE

AMTI's NetForce software is supplied with the HE6X6. NetForce acquires digital data from the HE6X6 platform at a rate of 50, 60, 100, 120, or 200 datasets per second with an RS-232 output and additional rates of 240, 300, 400, 500, 600, 1000, or 1200 with a USB converter. NetForce provides a simple user interface and extensive database function for easy trial set-up and data acquisition. NetForce allows the user to export the raw channel data to ASCII files to be imported into spreadsheet programs like Excel, LOTUS, etc., for analysis.

EXTERNAL SYNC SIGNAL

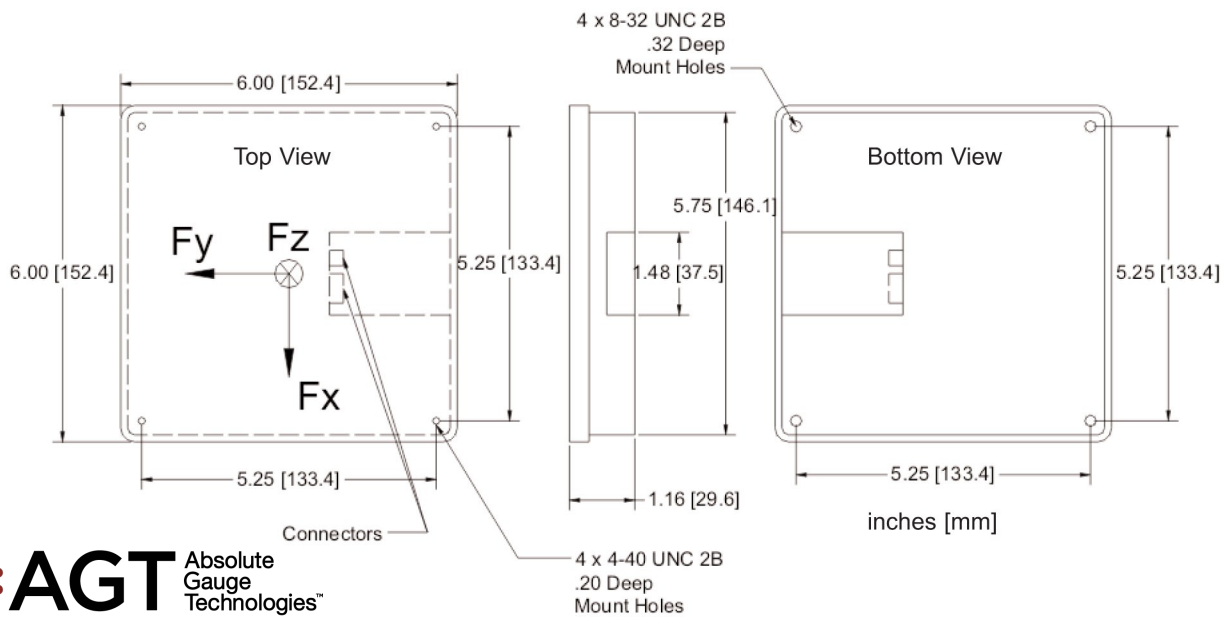
When this dedicated digital input line is brought to ground, the platform's internal processor will transmit a unique data set to the PC.

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HE6X6 Specifications	HE6X6-1*	HE6X6-5*	HE6X6-10*	HE6X6-16*	HE6X6-20*
Fz Capacity, lb (N)	1 (4.5)	5 (22)	10 (44)	16 (70)	20 (89)
Fx, Fy Capacity, lb (N)	0.5 (2.2)	2.5 (11)	5 (22)	8 (35)	10 (44)
Mz Capacity, in-lb (Nm)	1 (0.11)	5 (.57)	10 (1.14)	32 (3.66)	20 (2.29)
Mx, My Capacity, in-lb (Nm)	2 (0.23)	10 (1.14)	20 (2.29)	32 (3.66)	40 (4.57)
Stiffness Fz, lb/in (N/m)	150 (26000)	750 (131000)	1500 (260000)	2400 (416000)	3000 (520000)
Stiffness Fx, Fy, lb/in (N/m)	75 (13000)	375 (66000)	300 (52000)	2400 (416000)	1500 (260000)
Fz Natural Frequency (Hz)	42	95	135	170	195
Fx, Fy Natural Frequency (Hz)	30	65	95	170	135
Weight, lb (kg)	1.6 (0.75)				
Data Rate	Software selectable 50, 60, 100, 120, 200, 240, 300, 400, 500, 600, 1000, or 1200 data sets per second. 12 bit resolution.				
Interface	RS-232 serial port usable at up to 200 data sets per second. USB converter usable at up to 1200 data sets per second.				
Power Supply	7.5 VDC, 110V or 220V input power supply included.				
Minimum Computer Requirements	Windows 98 operating system, Pentium 450 MHz processor, 64 MB RAM and a RS-232 serial port. Also available for Windows 2000/Me/XP operating systems.				
Filters	Fixed 100 Hz 3rd order analog.				

*Consult factory for other available capacities.



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