



Uniaxial ICP® Accelerometers



Model (note options below)	Sensitivity (mV/g)	Frequency Range (±10%)	Amplitude Range (±g pk)	Temp Range (°F)	Connector Type/Location	Mounting	Mass (grams)	Discount
1 YJ353B14	5	0.7-15000	1000	-65/250	10-32 top	5-40	3	10%
2 Q353B13	5	0.15-20000	1000	-65/250	10ft cable to 10-32	5-40	1.7	45%
302A	10	0.7-10000	500	-65/250	10-32 top	10-32	25	50%
302A07	10	1-10000	500	-65/250	10-32 top	10-32	25	50%
3 U320C04*	10	0.7-9000	500	-100/325	10-32 top	10-32	10.5	30%
4 353B16	10	0.7-20000	500	-65/250	5-44 top	5-40	1.5	20%
5 353B17	10	0.7-20000	500	-65/250	10ft cable to 10-32	5-40	1.7	20%
6 YJ353B18	10	0.7-15000	500	-65/250	10-32 top	5-40	3	10%
7 Q353B01	20	0.1-10000	250	-65/250	10-32 side	10-32	10	45%
307A	100	1.3-5000	50	-65/250	10-32 top	10-32	31	60%
308B	100	1-5000	50	-65/250	10-32 side	10-32	50	50%
308B15	100	1-5000	50	-65/250	10-32 side	10-32	58	50%
8 333B	100	1-1000	50	0/150	3-pin IDC	3-pin IDC	5.6	10%
9 U338C24	100	0.35-7000	50	-65/200	10-32 side	10-32	10	30%
10 YTLB352A56	100	0.3-15000	50	-65/250	5-44 side	adhesive	1.5	10%
11 UA352C65	100	0.3-12000	50	-65/200	5-44 side	adhesive	2	30%
12 UM352C65	100	0.3-12000	50	-65/200	5-44 side	M3	2	30%
13 U352C66	100	0.3-12000	50	-65/200	5-44 top	5-40	2	30%
308B02	1000	2.5-3000	5	-65/250	10-32 side	10-32	65	50%
14 U393C	1000	0.01-1200	2.5	-65/200	10-32 side	10-32	885	40%
15 U626A03	1000	0.2-6000(±3dB)	5	-65/250	MIL-C 5015	1/4-28	199	50%

Note built-in standard options from model number. Shown as prefix of standard model:
A-Adhesive mount option, J-Ground Isolation option - reduces electrical noise when testing electric motors and ground loop situations, M-Metric Mounting Thread - see mounting column for description, Q-Extended Low Frequency - Q option sensors shown are recommended only for long-duration shock pulse measurements (e.g. package or drop testing), TLB-TEDS Transducer Electronic Data Sheet in LMS International Automotive Format, U-Demo, slightly out of spec - data can be forwarded for review of specifics, Y-Consignments in full specification

Triaxial ICP® Accelerometers



1 356A11	10	2-10000**	500	-65/250	5ft cable to 4-pin	5-40	4	30%
2 356A02	10	1.5-6500	500	-65/250	4-pin	10-32	11	10%
3 356A21	10	2-10000**	500	-65/250	mini 4-pin	5-40	4	30%
3 356B21	10	2-10000**	500	-65/250	mini 4-pin	5-40	4	10%
1 356B11	10	2-10000**	500	-65/250	5ft cable to 4-pin	5-40	4	10%
346A	50	2-1000	100	-65/250	10-32	8-32 SHCS	71	50%
4 356B08	100	0.3-6500	50	-65/170	4-pin	10-32	20	30%
2 356A15	100	1.4-6500	50	-65/250	4-pin	10-32	11	10%
2 TLA356A15	100	1.4-6500	50	-65/250	4-pin	10-32	11	30%
329A31	100	1.1-7000	50	-65/250	MIL 4-pin	1/4-28	139	50%
3 U356A18	1000	0.3-5000	5	-20/170	4-pin	10-32	25	35%
6 3701G3FA3G	1000	DC-150	3	-40/185	4-pin side	through	15	30%
6 3701D3FA20G	100	DC-500	20	-40/185	4-pin side	through	15	10%

** - x-axis spec'd from 2-7000Hz
TLA-TEDS Transducer Electronic Data Sheet in LMS Int'l Free Format (equiv. to standard T option), U-Demo, slightly out of spec - spec sheets can be forwarded for review of specifics

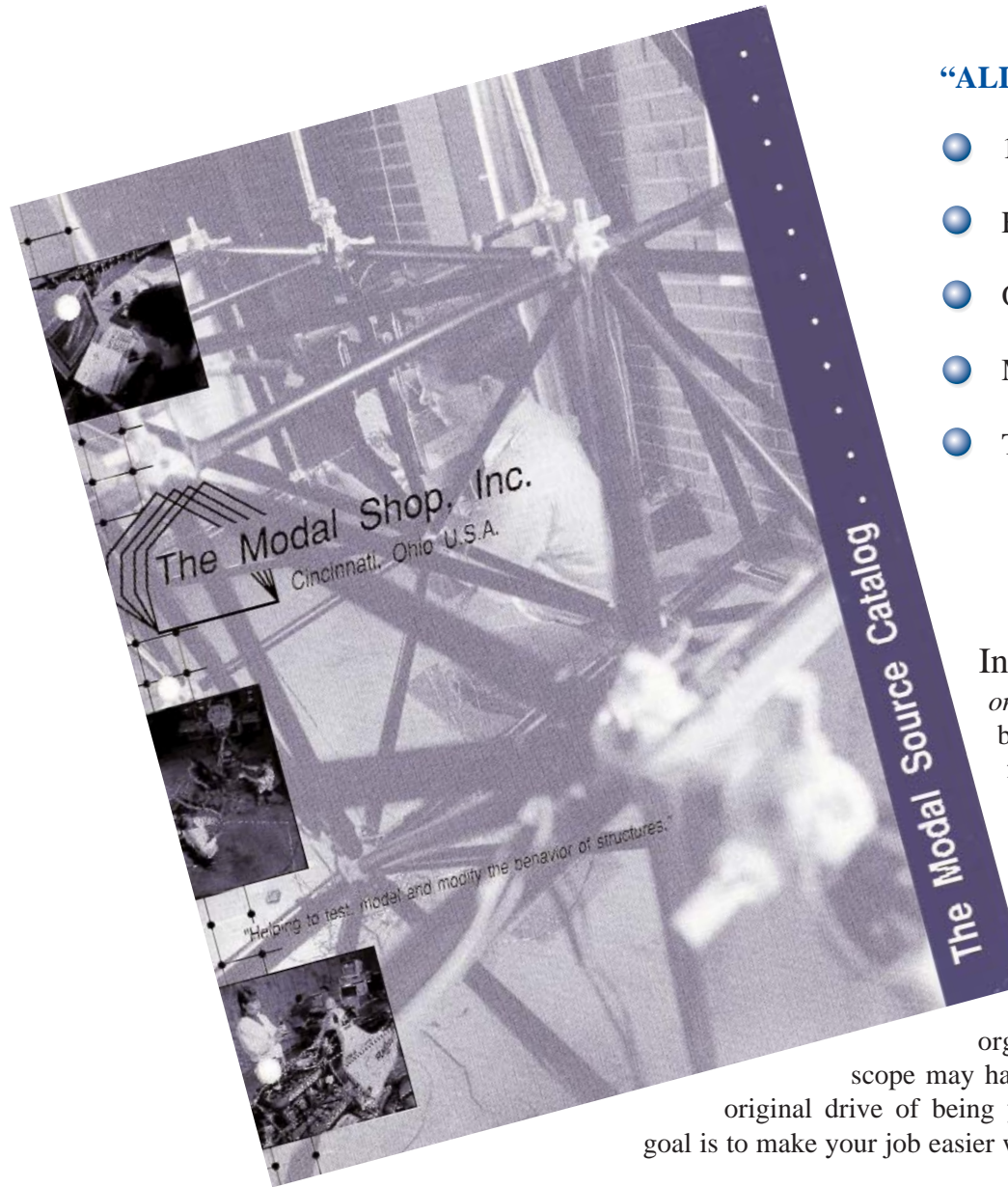
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Most of these products aren't new concepts. In fact, we dreamed up the 440 series not too long after HP released the first E1432A cards in the mid 90s.

Still, at IMAC XXIII (2005) and in the April 2005 *Sound & Vibration*¹, many of these products again are touted as just good practices in modal test instrumentation.



086 Series Modally Tuned Impulse Hammers
Testing anything from a hard drive to a bridge? There's an instrumented hammer for it. Some common units include:
086C01 (to 100lb) – **10% off**
086C03 (to 500lb) – **10% off**
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Modal Excitation
Shakers from **MB Dynamics**, **Ling Electronics**, and even a calibration exciter from **Bouche** available at 20% or more off! If you are looking for a complete system with amplifier, cooling package and accessory kit, let us know. Modal 50 – **20% off**

2050A Lateral Excitation Shaker Stand
This stand is born from Frankie's original design used in the UC/SDRL (circa 1986). The convenient support adapts a modal shaker for horizontal operation, allowing lateral input through a piano wire stinger. Lateral input is a must for any automobile test lab. Also for convenience, the design aligns with fine/course adjustments and decouples shaker motion from stand dynamics.

288D01 Impedance Head
Measures input force and response acceleration at the same location, perfect when performing SIMO/MIMO analysis. Increases model accuracy. Both force and acceleration channels operate on ICP power. **20% off**

2100 Series Stingers
OK, we don't really offer any excitation stingers from the demo/rental pool. But don't forget about our stingers designed for all types of collet-style shakers. The flexible rod and piano wire types both transmit lateral force, reduce side loads and isolate the exciter armature from the structure under test. www.modalshop.com/test_tmproducts.asp

5020A Automated Test Setup
This system eliminates the need to figure out which cable connects to what. See how clever use of barcoding and TEDS onboard sensor information can drastically reduce test setup time.

AirRide Test Supports
Support and isolate your test structure, with very low rigid body mounting frequencies for large structures. Perfect for body-in-white testing, the AirRide eliminates "chatter" from coil-spring supports. 8030S – to 680lbs - **20% off**
8032S – to 1790lbs - **call**

070C29 Patch Panel
Why run dozens of 50ft coaxial cable if you don't need to? Eliminate rats' nests and consolidate cabling with distributed break-out boxes. Each panel has 16 BNC and IDC input connectors, with one 50-pin output for a ribbon cable to standard signal conditioning.

440 Series Bank-switching Signal Conditioner **This system could change your life!**
It's not just a signal conditioner. Imagine yourself a test engineer living in relative engineering squalor. You want to test with hundreds of channels simultaneously but with the price tag of all that acquisition with onboard DSP, your boss says, "that's out of the question!" **Rethink what you know.** If you can't afford 256 channels of A/D, remember that sensors and signal conditioning are a fraction of the cost. Buy the full suite of sensors and **bank-switch** to get the full dataset on your smaller channel count acquisition. Oh, and each connectable 440 series mainframe provides up to 128 channels of ICP with options for prefilter, TEDS and gain (per-channel automatic or manual). It's AC or DC powerable. Like you, we've done real tests before too – the industry's original channel status indicator LED is standard on every unit and helps track pesky channel shorts or open circuits.

5230XL Sonic Digitizer
Define coordinates in x•y•z space in a fraction of the time of other measurement methods. Even large SUV-sized volumes can be measured. System complete with PC software to setup and export universal files to CADA, ME'scope and more!

VXI Large Channel Count DAQ
The popular HP/Agilent/VXI Technologies E1432A 16-channel digitizer, with optional source or tachometer. Mainframes, data disks, FireWire interface cards, and breakout boxes also available.

If you don't see a product on here that you think belongs, let us know! We're good listeners!

Even if you're not measuring thousands, or even tens of channels – these items help you test.

LaserTach
Forget special signal conditioning – the LaserTach uses standard ICP power and provides 1 pulse/rev with a 5ft range in a standard bolt package with indicator LED. **10% off**

485B36 USB-ICP™
Power two channels of ICP from your laptop USB port. BNC inputs and one standard stereo output that connects to the audio input on your computer for easy analysis. **10% off**

VibeAlarm Vibration Limit Switch
DIN rail mountable unit conditions signal with programmable band pass filtering and two latch or momentary alert/alarm levels. Screw terminal allows 4-20mA PLC or bus interface. **10% off**

400A76 TEDS Interface Kit
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480E09 and 478A01
Single channel battery powered signal conditioners for ICP (480E09, includes gain) and DC Capacitive 3701 series sensors (478A01). E09 – **10% off**
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483A17, 583A, and 584A
PCB 19" rack signal conditioning, units from 12 to 16 channels with various options including fine gain, 1x 10x 100x gain, filtering, computer control, front display and more. **Up to 50% off!**

ZonicBook
Mobile dynamic signal analyzer, laptop controlled, 2 to 8 channel units, with BNC input and built-in signal conditioning. Some units ruggedized for plant-floor testing. Call for options available.

208 Series Dynamic Force
ICP compatible dynamic quartz transducers, 10-32 output, includes impact cap and mounting stud 208B01 to ±10lb – **20% off**
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687A01 Handheld Vibration Kit
Measures vibration severity, overall velocity and acceleration. Comes with meter, industrial accelerometer, cabling, and headphones for audible monitoring. **20% off**

¹ Hunt, Dave and Brillhart, Ralph "Smart Sensors, Dumb Engineers: How to Avoid Crossed Signals in Instrumentation" *Sound & Vibration*, April 2005, 32-36