

SENSORS ACCELERATION MEASUREMENT



SIRIUS MINI

MADE FOR SOUND AND VIBRATION

SIRIUS mini is a 4-channel DAQ system. It's perfect for vibration analysis and acoustic noise measurements. Just plug it into your computer's USB port and install the included DewesoftX software. USB also powers the system. SIRIUS mini is fanless, which means it's completely silent – important in some sound applications.

Each of the four high dynamic analog inputs features dual sigma-delta ADC's with 200 kHz per channel sampling rate. With DualCoreADC® technology SIRIUS DAQ systems achieve more than 130 dB signal-to-noise ratio and more than 160 dB in dynamic range. This is 20 times

better than 24-bit DAQ systems and with 20-times less noise.

SIRIUS mini also features a SuperCounter®, which means that you can connect an encoder or tachometer. This serves as the basis for order tracking analysis, torsional vibration, and similar applications.

Carved out of a single block of aluminum, the SIRIUS mini is so small and light that you can easily fit it into a laptop bag or backpack.

VIBRATION SENSORS:

For standard measurements or single-axis modal analysis, the I1T-50g-1 and isolated

triaxial I3T-50G-1 IEPE cube accelerometer with 50 g range are recommended. The I1AI-500G-1 is a miniature accelerometer intended for the measurement of higher vibration up to 500g. Many accelerometers are equipped with the TEDS smart sensor interface. DewesoftX software automatically detects the sensor and sets the correct scaling.

MODAL IMPACT HAMMER

The IH-441N-1 is a modal hammer with up to 440 N range. Our modal hammer is equipped with a TEDS smart sensor interface. DewesoftX software automatically detects the sensor and sets the correct engineer units and sensor scaling.



SIRIUS MINI

SIRIUSm-3xACC-1xACC+	
Analog inputs	4
Input type	IEPE / voltage
Connectors	BNC
High range / Low range	±10 V / ±500 mV
Sensor excitation	(IEPE) 2, 4, 8, 12, 16 or 20 mA
Compliance voltage	25 V
Sensor indicator	Green BNC LED bezel indicates IEPE sensor fault or disconnection
SuperCounter	One, compatible with counting, waveform timing, encoder, tachometer, or gear-tooth sensor
Software	DewesoftX included. Runs on Windows computers. Software updates included for the life of the product.
TEDS	✓
Weight	0.74 kg (1.63 lb.)
Dimensions	146 x 139 x 64 mm (5.75 x 5.47 x 2.52 inches)
Power	5.0 V (+0.25 V, -0.6 V) DC (via USB)

Note: There is also a model SIRIUSm-4xACC model available without the SuperCounter input

INDUSTRIAL ACCELEROMETERS

Case isolated sensors can also be used with non-isolated amplifiers without worrying about ground loops.

The I1TI-50G-2 IEPE sensor is perfect for industrial applications due to its rugged case and connector. The I3TI-50G-1 is a standard triaxial sensor with ranges up to 50 g. The I1TI-500G-1 is a single-axis accelerometer that can measure up to 500 g. The C1T-50g-1 charge accelerometer can be used in high-temperature environments up to 190° C (374°F).

MICROPHONES AND MORE

The facing page also shows the range of microphones offered by Dewesoft, as well as a sound intensity probe.