# Miniature USB
Data Acquisition System

Measure Volts, Ohms, Amps, RTD, Thermocouple, Strain Gage, Load Cell.

- Connect Windows computer directly to sensors: Volts, Resistance, Current, Thermocouple, RTD, Thermistor, Strain Gage, Load Cell, Pressure, LVDT, Flow and Accelerometer.

- instruNet i60x provides 16se/8di Voltage Input Channels with *extremely* accurate 24-bit A/D Converter[29]. Alternatively, one might consider the larger i555 card cage with 8 to 256 channels.

- Voltage input ranges: ±20mV, ±40mV, ±80mV, ±150mV, ±300mV, ±600mV, ±1.2V, ±2.5V, ±5V, ±10V.

- 4x Digital I/O (4mA sink/source, 0 to 3.3V).

- i60x receives power from USB bus and provides excitation power (+3.3V, 80mA) to sensors.

- Includes Free instruNet World strip chart recorder software; or purchase powerful PLUS version.

- Compatible with Windows ≥ XP SP3 computers, 32-bit or 64-bit.

- The i601 is the smallest and most accurate electrically-isolated 8channel direct-to-sensor data acquisition system in the world.

- For full i600/i601 datasheet, click here.

- For i60x accuracy specifications, click here. Why so accurate? It was designed in 2016; whereas many competing products are older.

- The i601 tiny standalone USB device provides ±36V bank electrical isolation; whereas the less costly i600 directly connects I/O signal ground to computer ground via USB cable.

- Digitize at a maximum sample rate of 160K samples/sec for 1 channel, 12Ks/sec/ch for 2 channels, 6Ks/sec/ch for 4 channels or 3Ks/sec/ch for 8 channels.
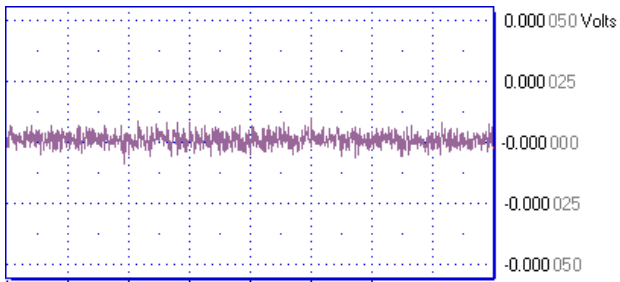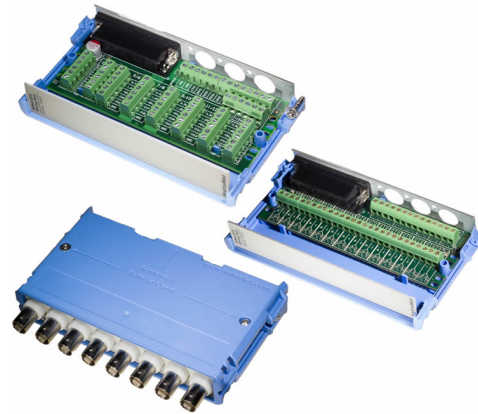
Very low *internal noise*, as shown above (2µVrms, 1Ks/sec, ±20mV range)

Compatible with *Excel*, *LabVIEW*, *DASYLab*, *MATLAB*, *Origin*, *C & Visual BASIC* on Windows ≥ XP SP3 Computers

i60x can digitize concurrently with instruNet i555 card cage system; which supports 4, 8, 12 or 16 slots of analog/digital i/o hardware.
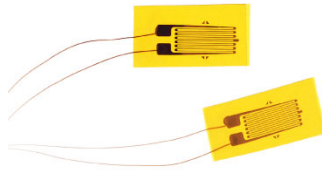

Optional Wiring boxes:
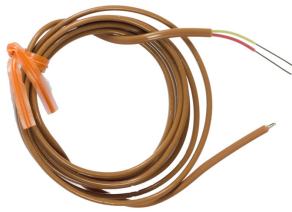*i510*, *i511*, *i512*

Connect to Sensors in Several Easy Steps

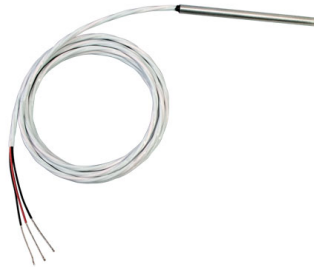Connect to *Load Cell*
in several easy steps

Connect to *Strain Gage*
in several easy steps

Connect to *Pressure* sensor
in several easy steps

Connect to *Thermocouple*
in several easy steps
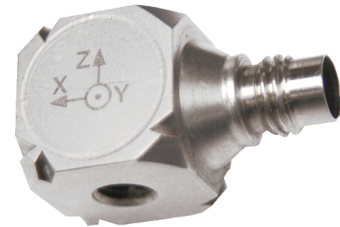
Connect to *RTD*
in several easy steps

Connect to *Thermistor*
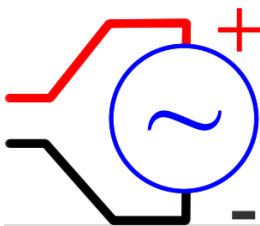in several easy steps

Connect to *LVDT* distance sensor
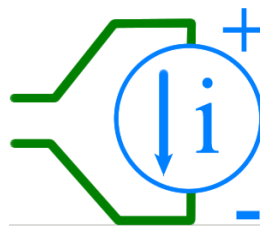in several easy steps
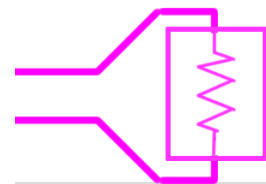
Connect to *Flow* sensor
in several easy steps

Connect to *Accelerometer*
in several easy steps

Connect to *Voltage Source*
in several easy steps

Connect to *Current Source*
in several easy steps

Connect to *Resistance Device*
in several easy steps