Static/Quasi Static Instruments

Constant load monitoring applications

Models: StudentDAQ, P3, and D4

	StudentDAQ	D4	P3
Measurement Range	+/-16,000 @ GF=2.0	+/-31,000 @ GF=2.0	+/-31,000 @ GF=2.0
Connection	RJ45 (1)	RJ45 (4)	Terminal Block or TIO
Input Type	Strain Gage Bridge	Strain Gage Bridge	Strain Gage Bridge
Bridge Types	QB, HB, FB	QB, HB, FB	QB, HB, FB
Bridge Completion	120 Ohm, 350 Ohm, 1000 Ohm, internal HB 1KOhm(2)	120 Ohm, 350 Ohm, 1000 Ohm, internal HB 1KOhm(2)	120 Ohm, 350 Ohm, 1000 Ohm, internal HB 1KOhm(2)
A/D Converter	24 bit Delta-Sigma	24 bit Delta-Sigma	24 bit Delta-Sigma
Max Input	+/-8 mV/V @ GF = 2.0	+/-15.5mV/V @ GF=2.0	+/-15.5mV/V @ GF=2.0
Resolution	1ue @ GF=2.0	1ue @ GF=2.0	1ue @ GF=2.0
Accuracy	1% of reading @GF=2.0	0.1% of reading +/- 3 counts	0.1% of reading +/- 3 counts
Excitation	2.5 Volts (nominal,fixed)	1.5 Volts (nominal, pulsed)	1.5 Volts (nominal, pulsed)
Power source	USB only	USB only	USB, battery, or AC/DC
Data Rate	80 S/s	8 S/s	1 S/s
Max Storage	PC dependent	PC dependent	2GB card or PC
Max Channels	1	24	24
Software	Windows based	Windows based	Windows based
Drivers	Labview, .NET interface	Labview, .NET interface	Labview, .NET interface