

Specification of the Data -logger

	Data-logger
	<ul style="list-style-type: none"> • Min. 16 channels, expandable to 32 channels • Min. data acquisition rate 25000 Samples/sec/Channel • Min. 16 bit A/D conversion for each channel • Automatic sync with different sensor inputs • Controller with Inbuilt CPU • Min. 4 GB internal/ removable data storage • Measurement Range: ± 10Volts. Resolution, Accuracy or better. • Min. Windows 7 (32 bit) compatible software for operation control, data processing, output and graphical presentation. • 240V AC power supply, Lockable Carry case, all essential cables, connectors, operation manual, software for data-logger complete with all essential accessories for proper functioning.
1.	
	Signal Conditioning modules for Strain gauges and Analog Inputs compatible with Data-logger as mention in Sl. no 1:
	<ul style="list-style-type: none"> • Min. 16 Bit A/D convertor • Selectable filters 10Hz to 10 KHz and gain (1-10) or better • Programmable Excitation supply : 0.5 to 10 or better • Excitation current minimum 50 mA/ channel • Internal $\frac{1}{4}$, $\frac{1}{2}$ and full bridge using high stability and high accuracy resistors. • Single input module for strain gauges of standard make.
2.	
	<ul style="list-style-type: none"> • Min. 8 Channels • Measurement Range: ± 10Volts. Resolution, Accuracy or better.
	Signal Conditioning modules for LVDT compatible with Data-logger as mention in Sl. no 1:
	<ul style="list-style-type: none"> • Min. 16 Bit A/D convertor • Selectable filter 10 Hz to 10KHz and gain (1-10) or better • Support for 3/4/5/6 core wire transducers of standard makes • Excitation 3V selectable at 2.5 KHz to 10KHz or better • Excitation reference for calibration • Min. Input impedance 100k Ohm • Min. Stability and accuracy $\pm 0.25\%$ • Measurement ranges ± 0.5 to ± 5V in suitable ranges for 0.0005% resolution or better • Min. 8 Channels or better • Single input module for standard make LVDTs
3.	
	Other
4.	<ul style="list-style-type: none"> • Installation ,commissioning and successful demonstration of all items supplied, training to users at CBRI, Roorkee • 3 years comprehensive warranty.