INDIAN INSTITUTE OF TECHNOLOGY KANPUR
DEPARTMENT OF MECHANICAL ENGINEERING
KANPUR-208016, INDIA

Sujeet K Sinha (Dr.)
Associate Professor

Tel: + 91 512 259 6679
Email: sujeet@iitk.ac.in

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Enquiry date: August 13th, 2013
Last Date: August 21th, 2013

Enquiry for Strain Measurement System for Friction Force Measurement application

Strain Measurement System usually employs the Wheatstone bridge as the primary sensing circuit. It also used a stable high-gain DC amplifier to amplify the small bridge output signal. In addition to these two basic components, a typical strain indicator includes the bridge power supply and built-in bridge completion resistors, along with balance and gain controls, provision for shunt calibration, and various convenience features listed below.

- 6 channel system- Four strain gage inputs and two amplified transducers inputs.
- Simulation display of all 6 channels in micro strain or user defined engineering units.
- Online graphical display of any one channel.
- System has built in circuitry for 120 Ohms, 350 Ohms and 1000 Ohms, quarter and half bridge strain gage configurations.
- Accepts Quarter Bridge, half bridge and full bridge strain gage configurations.
- Peak hold- Max/Min for all channels.
- Selectable display of channels.
- Auto zero.
- Gage factor setting from 0.1 to 99 (3 Decimal Digits).
- Excitation Voltage: Selectable from 0 to 10 VDC in steps of 10mV.
- Full Scale Range: 10,000 με; 25,000 με; 50,000 με and 1,00,000 με
- +/- 10VDC- Analog output for strain gage input channels
- RS 232 Interface.
- Fully Programmable.
- Features the latest digital circuitry.

Any other necessary components must be include in the quotation

Please provide the information regarding the safety feature in the quoted model.

The quoted system should be certified as complete for carrying out the experiment “To measure the friction force.”

Terms & Conditions:

- Provide "Authorization certificate" from the manufacturer, in case the quotation is submitted by an Indian Agent.
- Prices should be FOB/ CIF up to IITK.
- Validity of quotation should be at least for 90 days.
- Warranty: One Year from the date of Installation and Commissioning.

Kindly send your best offer (Technical and Commercial offers separately) so as to reach us on or before August 20, 2013 to the following address:

Dr. Sujeet K Sinha
Department of Mechanical Engineering
IIT Kanpur
Kanpur – 208016, India

In case of any queries/ clarifications related to this tender, you may contact Mr. Jitendra Kr Katiyar(+91 8090113301, 9336839742).