

VIBRATING WIRE LOAD CELL & MONITORS

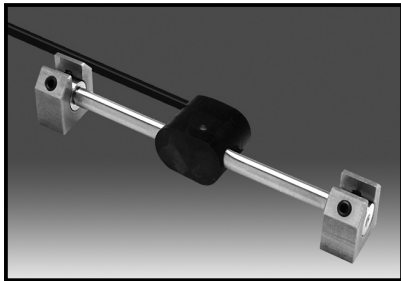
MSLC series

Introduction:

MLTCT series of precision vibrating wire load cells are available in (0.1 to 1000 kg), more than 20 different models virtually offering solution to force/torque measurement related to industry, organic/inorganic chemical, heavy electrical/mechanical industries, machine tools, non-conventional energy, solids state physics application and many uncountable defense/nuclear applications. These load cell consist of held in tension between two end flanges. When this tensioned wire, electromagnetically plucked, vibrates at a frequency that is proportional to the strain in the wire. i.e tension is inferred from vibrating wire frequency. Careful selection design topology ensures better controllability and reliability with additional integrated power/voltage and control/protection. Company offers tailor made solution to custom requirement.

Benefits:

- Simple installation and operational compatibility.
- Consistent performance over large temperature range (80°C)
- Scaled directly in Volt/Ampere with repeatable accuracy.
- Auto zero offset without drift with ultra high input impedance...
- Facility of programming profile of display in six steps/ RS-232 interface.
- All standards din sizes and custom sizes.
- Immune to parametric variations/long range transmission.



MSLC- 00020



MSLC- 00500



MSLC-010

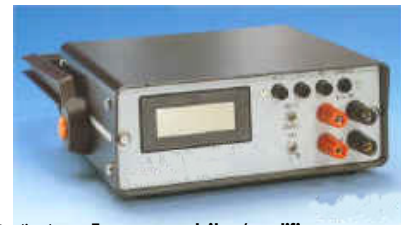
Electrical/Mechanical specifications OF Vibrating wire

FORCE 0.050 to 50000.0 K.g.

MODEL	Strain range Micro	Strain gauge length/breadth inch	Installation technique	Sensitivity micro strain	Temperature range degree cel
MSLC-00020	0-3000		embedded	0.1	-20 to 200
MSLC-00100	0-3000		embedded	0.1	-20 to 200
MSLC-00500	0-3000		embedded	0.1	-20 to 200
MSLC-01000	0-3000		embedded	0.1	-20 to 200
MSLC-02000	0-3000		embedded	0.1	-20 to 200

General specification of signal conditioner/monitor:

Operating voltage 220 volts/110volts A.C or 12 volts D.C.
 Excitation current 0.0- 12 VOLTS/500 ma
 Regulation better than 0.5 % of measurement
 Accuracy 99.5% of set point
 Repeatability 100 percent
 Response time 0.05 -10.0 sec
 Interface Signal 0.0-20.0 m.volts D.C. (proportional to force)
 Step down ratio 1:100000
 Display 3/4/5/6 digit LED/LCDPM/Torque in 3½ & 4½ digit red glow LED/LCD display
 Protection: Over/under voltage & with power on Indication

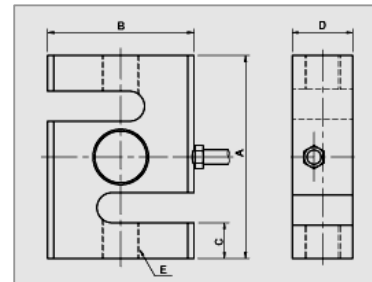


Force monitor/amplifier

General specification of Load cell:

Capacity: 1, 5 20,50,100,200,1000,2000,3000,5000 Kg
 Rated o/p: 3 mv/V
 Non linearity: 0.03%
 Hysteresis: 0.03%
 Creep error: 0, 02%
 Zero balance: 0.03%
 Compensated temp. Range: -20-80 °C .
 Operating temperature:-20-80 °C
 TCR: less than 0.1%
 Terminal o/p resistance: 350 ohm +/- 3.5ohm
 Terminal i/p resistance: 350 ohm +/-5ohm
 Excitation voltage: 10 volts
 Protection class: IP65

Wiring:
 Red: + exc White: -exc
 Green: +sig Blue: -sig
 Bare: gnd



Three numerals x 10 after MSLC indicate power of load cell and last two x 100 indicate rpm. Load cell with tailor specs are also available. Company offer tailor made software solution.

MOTORON SEMICONDUCTORS CORPORATION

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