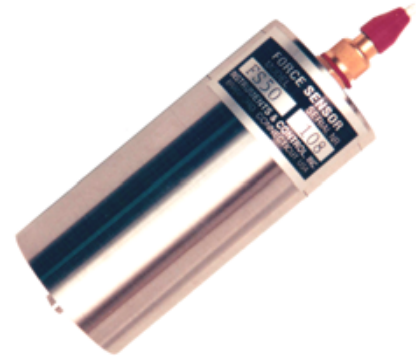


LOW RANGE FORCE-BALANCE SENSORS, Model FS

Servo-type force sensor, has better performance by orders of magnitude than conventional open-loop types. Accuracy is achieved through the use of the closed loop principle the measured force is balanced by an internal electromagnetic force. The displacement elimination minimizes the errors characteristic of open-loop sensors, such as: hysteresis, non-linearity, non-repeatability, temperature sensitivity, and slow speed of response.



Specification

Measuring range	± 5 to ± 30 grams
Non – linearity	0.01% FR typ., 0.02% FR _{max}
Resolution	better than 0.001% FR
Step response	<10 msec
Maximum overload	1,000% FS
Temperature range, operating	0 to 60 °C
Storage	-20 to +80 °C
Temperature sensitivity, bias	0.005%FR/°C typ.
Temperature sensitivity, span	0.005% /°C typ.
Supply power	± 15 VDC, 15 to 40 mA (depending on range)
Output	± 15 VFR, low impedance (<10 Ω)

