

MODEL FS-200 FORCE SENSOR

Description

CE Certified FS-200 is strain gage based force sensor with full temperature compensation. It is constructed from Al. Alloy or Tool Steel. It is light weight, rugged and easy to install. This is applied to hand held force gages, hanging scales and controlled feed systems. It is fixed from side and loaded through hole provided at center.

Features

- ❖ **CE Rated** ❖ 0.30 to 250 Kgf. capacities offered
- ❖ Complete environmental protection – IP 65 class for gage area
- ❖ Other capacity available on request

Applications

- ❖ Hand held force gages
- ❖ Medical instrumentations
- ❖ Controlled feed systems
- ❖ Test equipment
- ❖ Thread tension control in textile industry

Performance Specification

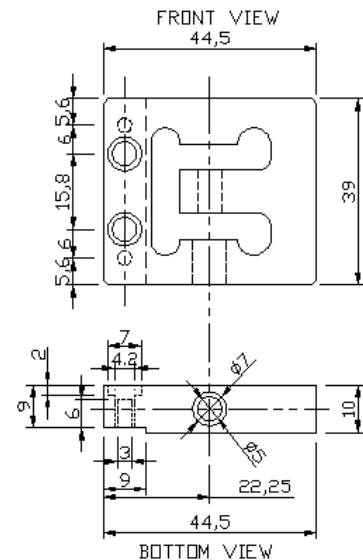
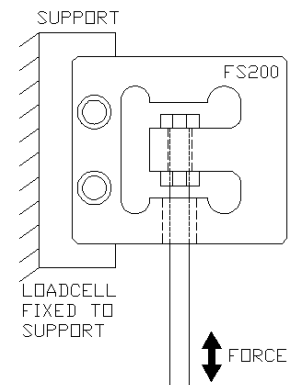
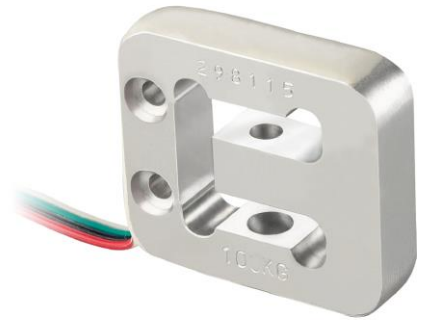
Standard Capacities -	Kgf.	0.3, 1, 3, 5, 10, 25, 50, 75, 100, 250
Excitation Voltage		10 VDC- Maximum 15 VDC
Nominal Output		0.3Kgf. - 1 m V/V Other - 1.5 to 2.0 m V/ V
Non - Linearity		< ± 0.2% FSO (Full Scale Output)
Non - Repeatability		< ± 0.1% FSO
Creep (30 minutes)		< ± 0.03% FSO
Zero Balance		± 1.0% FSO
Input Resistance		375 Ohms
Output Resistance		350 Ohms
Insulation Resistance (50 VDC)		> 1000 Mega Ohms
Safe Overload of Rated Capacity		150%
Cable Length (4 Core)		300mm.
Temp. Compensated Range		0 ~ 60 °C
Temperature Effect on Output		< 0.04% FSO/ °C
Temperature Effect on Zero		< 0.04% FSO/ °C
Deflection		< 0.5 mm at FSO
Finish & Construction		All but 250Kgf. - Aluminum Alloy 250Kgf.- Tool Steel Electro less Ni. plated
Environmental Protection Class		IP 65

Electrical Termination

- + Input - Red
- + Output - Green
- Input -Black
- Output - White
- Shield - Floated

Options

Compatible Instruments with Relay output,
4-20 mA or 0-2 Volt Output
Digital Version with RS-485 interface /
USB output
Blue Tooth Telemetry / Wireless Telemetry
Software for Graphic, Tabulation, Reporting
and Analysis



Specification are subject to change.

Dimensions are in mm.



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