
Monad Electronics

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Winner of National Award for year 2009-2010 in R&D

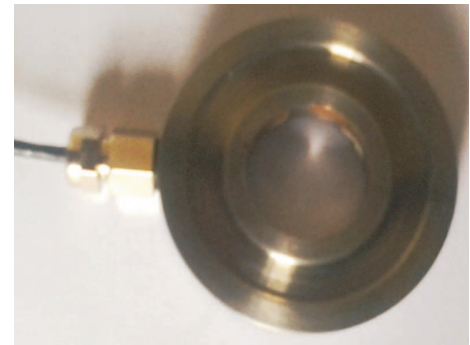
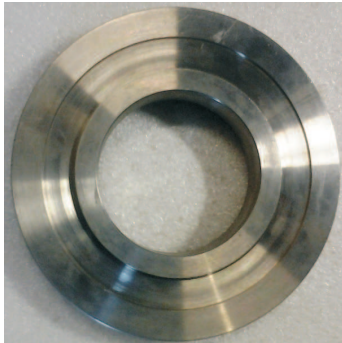
Monad Electronics is An ISO 9001:2000 certified company, which has over the last 13 years been involved in the business of Exporting, designing & manufacturing, Electronics Industrial products, Testing equipments, sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

We are specialized in providing consultancy for itemized engineering Test ring and Projects. We are also interested in taking - up the project development, recommending and mfg. sensing and related components, service providing in installation & commissioning.

We are in this field from last 13 years and also Exporting our products to USA, Germany, Belgium, Turkey, Australia, UAE and African countries. We have good track record of import substitute high end equipment development and supplying to leading industries and government institutes.

WASHER TYPE LOAD CELL

The washer type Load Cells can be used as a washer, sensing compression force, When utilized as a compression load cell, the load buttons supplied with washers should be used. When used as a washer Type load cell, the set of spherical washers should be used as a washer cell, the set of spherical washers should be used on one side of the load cell and a flat washer on the other side of the washer. While choosing a flat washer, make sure that the inner diameter of the flat washer is less than the diameter of the inner ring of the load washer to insure that the active ridge is seated on the flat washer.



WASHER TYPE LOAD CELL



SPHERICAL WASHERS

WASHER TYPE LOAD CELL

SPECIFICATIONS:-

Input	10 V DC (15V Max.) or 5 V DC (10V Max.)
Rated Output	2 mV/V nom.
Output Resistance	350 Ohms nom.
Accuracy	$\leq \pm 3.5\%$ Of Full Scale Output, considering linearity, hysteresis and repeatability
Safe Overload	150% of R.O.
Linearity	$\leq \pm 0.5\%$ Of Full Scale Output
Repeatability	$\leq \pm 0.1\%$ Of Full Scale Output
Hysteresis	$\leq \pm 0.5\%$ of R.O.
Operating Temperature	0°C to 70°C
Compensated Temperature	20°C to 70°C
Temperature shift Zero	$\leq 0.02\%$ of R.O./°C
Temperature shift Span	$\leq 0.05\%$ of Full Scale Output/°C
Calibration	2-Point NIST-Traceable Calibration
Construction Material	Stainless Steel
Connectors	
Cable	Insulated shield cable, 1.5 meter

WASHER TYPE LOAD CELL

MOUNTING & DIMENSIONS:-

Dimensions (Nominal) For 1T Capacity

Sensor OD:~25mm, Sensor ID:~8mm,
Top Washer OD:~20mm
Bottom Washer OD:~25mm

Dimensions (Nominal) For 2T Capacity

Sensor OD:~25mm, Sensor ID:~18mm,
Top Washer OD:~20mm
Bottom Washer OD:~25mm

Dimensions (Nominal) For 5T Capacity

Sensor OD:~20mm, Sensor ID:~10mm,
Top Washer OD:~20mm
Bottom Washer OD:~25mm

Mounting

On a flat surface between 2 Compatible washers.

THROUGH-HOLE LOAD CELL

SPECIFICATIONS:-

Input	10 V DC (15V Maximum)
Rated Output	2 mV/V nom.
Output Resistance	350 Ohms nom.
Safe Overload	150% of R.O.
Linearity	$\leq \pm 0.5\%$ Of Full Scale Output
Repeatability	$\leq \pm 0.1\%$ Of Full Scale Output
Hysteresis	$\leq \pm 0.5\%$ of R.O.
Operating Temperature	0°C to 100°C
Compensated Temperature	20°C to 70°C
Temperature shift Zero	$\leq 0.01\%$ of R.O./°C
Temperature shift Span	$\leq 0.02\%$ of Load/C
Calibration	5-Point NIST-Traceable Calibration
Construction Material	Stainless Steel
Dimensions (Nominal)	OD:~75mm, ID:~25mm, Thickness:~25mm
Cable	4-Conductor shield cable, 1.5 meter

THROUGH-HOLE LOAD CELL



MINIATURE COMPRESSION-TENSION LOAD CELL

The low profile Fatigue Rated compression-Tension Load cell is designed as the ultimate solution for some difficult applications with critical height for safety reasons.

The shear web design provides excellent performance even when the side force inevitably exists in normal operations. The typical example for side force resistance is the applications in motor truck scales.

Load cell is constructed of Stainless Steel and fully potted with special chemical compounds to IP67 providing excellent protection against moisture and humidity.



MINIATURE COMPRESSION-TENSION LOAD CELL

SPECIFICATIONS:-

Input	10 V DC (15V Maximum)
Rated Output	2 mV/V nom.
Output Resistance	350 Ohms nom.
Accuracy	$\leq \pm 1\%$ Of Full Scale Output, considering linearity, hysteresis and repeatability
Safe Overload	150% of R.O.
Linearity	$\leq \pm 0.1\%$ Of Full Scale Output
Repeatability	$\leq \pm 0.1\%$ Of Full Scale Output
Hysteresis	$\leq \pm 0.2\%$ of R.O.
Operating Temperature	0°C to 100°C
Compensated Temperature	20°C to 70°C
Temperature shift Zero	$\leq 0.01\%$ of R.O./°C
Temperature shift Span	$\leq 0.02\%$ of Load/C
Calibration	5-Point NIST-Traceable Calibration
Construction Material	Stainless Steel
Cable	Insulated shield cable, 1.5 meter or more

MINIATURE COMPRESSION-TENSION LOAD CELL

MOUNTING & DIMENSIONS:-

Dimensions (Nominal) For 100N to 500N

Load Button Diameter ~5mm,
Flat Surface Diameter ~25mm

Dimensions (Nominal) For 1000N to 10000N

Load Button Diameter ~8mm,
Flat Surface Diameter ~30mm

Mounting

On a flat surface between 2 Compatible washers.

DISPLAY PANEL METER

SPECIFICATIONS:-

Accuracy	±0.02% of Reading
Resolution	15-bit
Reading rate (Min.)	≥ 10 per second
Step Response (99.9%)	≤ 2 Seconds
Input Type	Strain Gauge, Voltage, Current
Voltage Input Range	0 to 100mV, 0 to 10V, 50mV, 5V
Current Input Range	0 to 20mA, 4 to 20mA
Analog Output	0 to 10V or 4 to 20mA
Relay Output	2 Form C relays (250V, 5A), Programmable for active High/Low alarms
Display	4-digit, 9-segment
Power	220/10% V AC, 50 Hz
Sensor Excitation	24V at 25mA

DISPLAY PANEL METER

