

---

# Monad Electronics

G1-805, Sitapura Industrial Area,  
Tonk Road, Jaipur-302022

Phone:- +91-141-2771119, Fax:-+91-1412550005

Website:- [www.monadindia.com](http://www.monadindia.com)

Email:- [mail@monadindia.com](mailto:mail@monadindia.com), [monadindia@yahoo.com](mailto:monadindia@yahoo.com)



# Introduction



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

Monad Electronics is An ISO 9001:2015 certified company, which has been involved for over 20 year in the business of designing, manufacturing and export of Electronic Industrial products, Testing equipments , sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

Monad is specialized in providing high end and high accuracy customized Force Transducers, Multi-Axial Force Transducers and Torque Sensors. Monad is an expert in providing import substitutes of high end Load Cells, Safe Load Indicators, etc

We are supplying to leading industries and government institutions and are also exporting our products to USA, Germany, Belgium, Turkey, Australia, U.A.E., Singapore, Spain, Brazil, New Zealand, Philippines, UK, Croatia and to the African countries.

## HIGH ACCURACY COMPRESSION LOAD CELL

The MCL-05 is A High Accuracy Compression Load Cell to provide a low-profile solution for high capacity.

The design provides good restraint for possible movement and eliminates the need for check rods. The design gives excellent performance for high capacity loading.

Constructed of Space Grade SS and is fully potted with special chemical compounds to IP67 providing excellent protection against moisture and humidity.

### Salient Features:-

- # Easy to install in limited space
- # Lift-off Protection.
- # Wide temperature range
- # Simplifies Load Cell installation.
- # Modular design for easy maintenance.
- # Permanent Protection against Load Cell Damage
- # Resistant against vibration
- # Space grade Stain less Steel Load Cell.

**HIGH ACCURACY COMPRESSION LOAD CELL**



## **HIGH ACCURACY COMPRESSION LOAD CELL**

- Ideally suited for liquids, solids weighing & accurate process weighing applications.
- Simple in design, meeting IP-67 / 68 Standards
- Special screened / FRLS cable used
- Easy to install & simple electrical connections
- Finds applications for weighing solids, powders, liquids and other raw materials like coal, cement, chemicals, molten steel etc.

**HIGH ACCURACY COMPRESSION LOAD CELL**



**HIGH ACCURACY COMPRESSION LOAD CELL****Technical Specifications:-**

Rated Capacities	: 1K, 1.5K, 2.5K, 5K, 10K, 15K, 25K, 35K, 50K, 75K, 100K, Kg
Full Scale Output (FSO)	: 2mV/V or 3.0 mV/V or 4.0 mV/V $\pm$ 0.25%
Accuracy Class	: Standard
Static Error Band % FSO	: $< \pm .03$
Non-Linearity % FSO	: $< \pm .01$
Hysteresis % FSO	: $< \pm .02$
Creep Error % FSO	: $< \pm 0.01$ in 20 minutes
Non-Repeatability % FSO	: $< \pm .01$
Side Load Sensitivity %	: $< \pm .01$
Zero Balance % FSO	: $< \pm 1.0$
Insulation Resistance	: $> 1000$ Mohms at 50VDC
Temperature Effect on Zero :% RO/°C-max	: $< 0.0004$
Temperature Effect on Output % RO /°C	: $< 0.0008$
Compensated Temperature Range	: 10° to 45°C
Operating Temperature Range	: 10° to 90°C
Storage Temperature Range	: 0° to 85°C
Input Resistance	: 700-745 Ohms
Output Resistance	: 699-707 Ohms

**HIGH ACCURACY COMPRESSION LOAD CELL****Technical Specifications:-**

Recommended Excitation Voltage	: 10/20 Volts DC
Maximum Excitation Voltage	: 15 Volts DC
Deflection@RO-mm	: 0.1
Safe Side load	: 100% of Rated Capacity
Safe Overload	: 150% of Rated Capacity
Ultimate Overload	: 300% of Rated Capacity
Sealing Meets	: IP66/ IP67 Standards