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# Monad Electronics

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# 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.

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## EOT/HOT Crane Weighing/Safety System

Monad's dynamometers, load cells, hanging scales and crane scales are for load, tension, force measurement, weighing during lifting, load testing and overload prevention.

During the past Thirteen years, Monad's crane scales, hanging scales, dynamometers, load cells and overload detectors have gained international recognition for their high quality, reliability, compact dimensions & unique features which ensure the user's safety and convenience.

The best raw materials and components together with the highest standards of manufacturing are matched to Monad Crane Scales leading technology.

All Monad products are produced to nationally and internationally recognized standards.

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## ELECTRONIC HANGING CRANE SCALES

Our electronic hanging scale consists of a hanging element, high-precision load cell, 24 bit A/D converter and a 5-digit digital display with high brightness, which can be clearly read from a relatively far distance.

Use of anti-shaking and anti-vibrating swing intellectual digital filter stabilizes reading, with a stabilization time of less than 5 seconds.

It has the functions of instant taring, and delayed taring. Adoption of low power consumption design extends service life of the battery.

With full charged battery, LED display can continuously work for 100 hours. It also has an over-discharge protection circuit, which prevents battery from damage and shortening of service life due to over-discharge. It can automatically save energy which extends the service life of the battery.

Monad's Scales are configured and supplied with Remote to use Tare Facility From a Range of 10 Mtrs.

## ELECTRONIC HANGING CRANE SCALES



## WIRELESS HANGING CRANE SCALES



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## CLEVIS PIN TYPE LOAD CELL FOR EQUALIZING PULLEY

The MONAD'S M-10 Clevis Pin Type load cell has several features that makes it most suitable for the Crane applications and clearly distinguish it from other load Conveyors cells. It is easy to install and extremely High- capacity storage accurate, even when subjected to extreme EOT/HOT Crane Scale. Pivotal forces and severe environmental conditions.

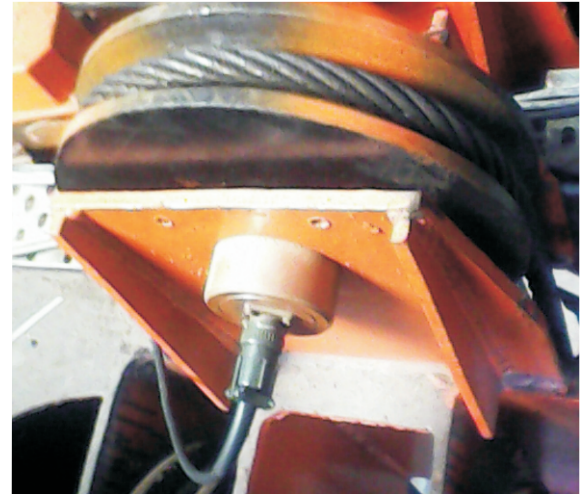
### FEATURES

- # Capacity range: ,100,500,1000 and 5000 kg
- # Cylindrical snap for easy instillation
- # High accuracy
- # High overload capacity
- # Stainless steel construction

### APPLICATIONS

- # Crane scales
- # Conveyors
- # High Capacity Storage Bins
- # EOT/HOT Crane Scale

## CLEVIS PIN TYPE LOAD CELL FOR EQUALIZING PULLEY





# CLEVIS PIN TYPE LOAD CELL FOR EQUALIZING PULLEY

## SPEifications

Rated load (R.L.)	100, 500, 1000, 5000 kg 10 T, 20T, 50T,
Combined error (terminal)	± 0.1 % of R.O.
Repeatability	0.02 % of R.O.
Overload safe	125* % of R.L
Ultimate Over Load	200* % of R.L
Safe Side load	100* % of R.L.
Input voltage recommended	10 V DC
maximum Input Voltage	15 V DC
Rated output (R.O.)	2 mV/V or 3mV/V
Zero balance	± 5 % of R.O.
Temperature range	+25°C to + 80 °C
Temperature effect on output	± 0.01 % of output/ °C
Temperature effect on zero balance	± 0.005 % of R.O./ °C
Material Of Construction	Stainless steel / Die steel
Degree of protection	IP 67 / IP 65

\*Referring to recommended loading case

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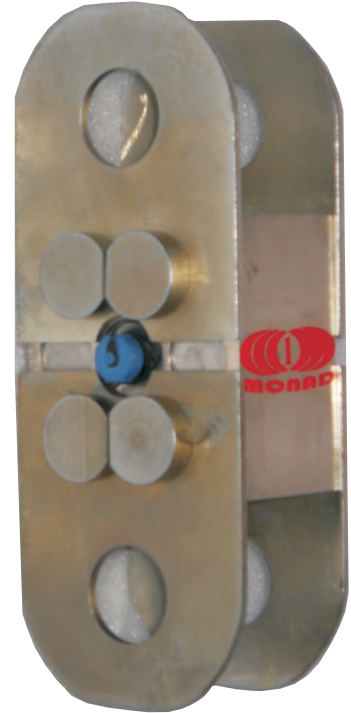
## Tension Link Load Cell

The Tension link Load cell of Monad offers so much versatility, but it is easy to use. Load cell with Inbuilt as well as separate Digital units are available with standard functions of On-Off, Zero, Peak Hold and user programmable set points.

For In built Load cell unit, Power is provided from internal "C" size batteries, Designed for indoor and outdoor industrial use, the Load cell will perform under virtually all environmental conditions (please consult for further details). Surface mounted electronics provide a space saving compact design and reliability in heavy shock and vibration applications. Mechanical switches and a alpha numeric LCD ensure user- friendly performance and operator acceptance.

Capacities range from 1 to 250 tons and units be selected to read in pounds, kilograms, & metric tons.

## Tension Link Load Cell



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## Tension Link Load Cell

### Specifications:-

Capacity	1T-250T
Accuracy	0.1 ± %F.S.
Temp. Range	0°C To 50°C
Material Of Construction	Alloy steel/Stainless steel
Power	"C" Alkaline Batteries 110 V
Peak	Standard
Hi Limits	Selectable
Analog Output	Optional
RS 232/RS485	Optional
Display	LCD 16X2 Alpha numeric
Safe Overload	200-500% Ultimate % F.S.
Rem. Accuracy	± 0.5 % Over 50 tons
Accessories	Crosby or Equal Shackles, Portable Carrying Case Audible Set Point Alarms Output Remote Hand Held Readout

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## ROPE CLAMP LOAD CELL

### Features

- # The clamp-on design makes it ideal for installing on new and existing cranes or winches.
- # Accommodates rope sizes from 9 to 30 mm.
- # Manufactured from Aluminum/Steel Alloy.
- # IP66 protection ensures long operational life in indoor and outdoor applications.
- # Unique design allows hydraulic hose to be fitted over the cable to protect from mechanical damage.
- # Easy fit installation clamps on with 2 bolts.
- # Cost effective solution for crane overload systems.
- # Standard load cell output connects to standard load cell instrumentation.

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## ROPE CLAMP LOAD CELL

### SPEIFICATIONS

Capacity: 3 models available	6-10 mm rope dia 11-16 mm rope dia 17-22 mm rope dia
Output:	2 mV/V nominal
Zero balance	±1% of full scale
Creep (1 hour)	< 0.05% of full scale
Non-linearity	< 0.03% of full scale
Hysteresis	< 0.03% of full scale
Repeatability	< 0.02% of full scale
Operating temperature range	0°C to 80°C
Compensated temperature range	0°C to 40°C
Safe overload	1.5 x capacity
Insulation resistance	> 2,000 M"
Recommended excitation	10V DC
Maximum Excitation	15V DC
Cable length:	6m length cable, 4 core shielded
Material	Alloy tool steel, nickel plated

## ROPE CLAMP LOAD CELL

