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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.

## Load Moment Indicator for A Tower Crane

Monad load moment indicators are suitable for all models of tower cranes, making use of special sensors to provide the tower crane operator with actual and correct crane working state. It indicates the moment of force applied on the crane, the hook amplitude as the height of the load increases, the crane rating, and the actual hoisting capacity of the tower crane at the particular Radius of the Trolley. In case the load reached 90 percent of crane rating at a particular moment, it will provide an early warning to the crane operator through a Relay O/P for Audiovisual warning. When the load (along with the hook amplitude) reached 100 percent, the load moment indicator will automatically switch on second Relay to stop the lifting gear from lifting the load upward.

## Load Moment Indicator for A Tower Crane

Monad Load Moment Indicator for a tower crane can accurately display the cognitive weight (TON) and operating radius on the trolley of the running tower crane, as the limit weight follows the changes of operating radius; It can clearly display the changes of the limit weight on the Large screen liquid-crystal display. If the weight surpasses limit weight, tower crane will automatically stop working in order to prevent the tower from being overturned and to avoid various disasters in advance. This is the tower crane safety systems to prevent excess loads with most advanced technology .

The Length Sensor installed with Trolley is able to correctly display the operating radius on the large-screen LCD, so that it raises the working efficiency of the tower crane in a large scale. LOAD CELL can accurately measure the weight of the load, and clearly displays the weight as the unit of 100kg (In case of Pin Type Loadcell) in the liquid crystal display. This allows the operator of the tower crane of safe and easy work.

The System also have option to connect Hook height sensor with hook winch to measure the height of Hook.

## Load Moment Indicator for A Tower Crane

The display constantly updates the following information of tower crane

1. Hook Height
2. Hook Radius Load
3. Moment
4. Slewing Angle of the main jib
5. Angle in the case of the luffing jib
6. Wind Speed

### Constitutions:-

Display- Computer

Load cell (Pin type or Tension type)

Radius sensor

Height sensor

Power supply

Slewing sensor\*

Angle sensor (In case of luffing boom/jib)

Wind speed sensor\*

\* Optional

## Load Moment Indicator for A Tower Crane

