



About Dynamic

DYNAMIC started its activity in the field of crane safety in 2001 and since then DYNAMIC has become a trusted name in this field. With a wide customer base from small crane rental companies to large construction companies and crane manufacturers, DYNAMIC can provide solutions of crane safety for any type of cranes.

Safe Load Indicator (SLI)

It is mandatory for every crane to have a functional **Safe Load Indicator (SLI)**. The SLI helps the operator to operate the crane safely by informing the current crane status and warning him about any impending overload or error condition, thus avoiding accidents and preventing loss of property, life & time.

LEVEL IT

(Digital Level Indicator)

Importance of Level

In any type of mobile crane whether telescopic tyre mounted or crawler mounted the load chart ratings on based on assumption that the crane is perfectly leveled in all directions. If the crane is not leveled, the ratings in the load chart do not apply.

One must either level the crane by using the outriggers or level the ground on which the crane is standing. Even though the crane might have been properly leveled during set-up, ground subsidence or oil leakage in outriggers can cause an out-of-level condition.

Effects of out-of-level :

- Side load develop in the boom
- Cranes loose capacity rapidly
- Increase in actual operating radius
- Excessive loading on the swing table



Making Work Safe... & Easy

Specifications :

- Supply Voltage : 12V / 24V DC
- Sensing Range : +/- 5 Deg in X & Y Axes
- Resolution : 0.5 Deg.
- Operating Temp : 0°C to 70°C
- Response Time : 1 Sec.
- Display : Ip52
- Sensor : Ip65
- Output : 2 Digital output (1 AMP Rating)
Can be used for sounding Hooter/Alarm
Can be used for motion Cut off

Application

- Mobile Crane
- Crawler Crane
- Pedestal Mounted Cranes
- Earth Moving Equipment
- Material Handling Equipment
- Barges & Cranes on Barges

Poor visibility

- Depends on the viewing angle
- Mostly made of acrylic / glass that break easily
- Cannot be conserved by the operator while operating the crane

The **LEVEL-IT** overcomes all these drawbacks and offers distinguished features.

Features :

- Factory Calibrated for 0.5° resolution
- Level Sensed in two axes/Directions
- Flame retardant ABS Enclosure for the sensor with die cast aluminum cover for mechanical protection
- Audible alarm to indicate change in level
- As it is mounted on the slewing table. It can also sense the vertical play in the slew ring

The following table for a particular lattice boom crane indicates the possible capacity loss due to out of level condition

Boom length & lift radius	Chart Capacity lost when crane out of level by		
	1°	2°	3°
Short boom minimum radius	10%	20%	30%
Short boom maximum radius	9%	15%	30%
Long boom minimum radius	30%	41%	50%
Long boom maximum radius	5%	10%	15%

Similar information can be obtained from manufactures of all cranes

The above reasons call for a good, accurate and easy to understand level sensing and indicating system, The conventional bubble level type that are fitted on most of the cranes do have some limitation.

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