



PRODUCT CATALOGUE

SAFE LOAD INDICATOR

For Hydra Crane
(About, Offerings and Capabilities)

Company Introduction

Incepted in the year 2010 in Delhi, India, Saras Equipments Pvt. Ltd. is an ISO 9001:2015 certified company, recognized as a distinguished manufacturer and supplier of Load Indicators and Measurement Products. In addition to manufacturing, we are also a trusted service provider catering to sectors such as construction and manufacturing industries.

With over a decade of industry experience, Saras Equipments is known for delivering high-quality load indicators and precision measurement solutions. As an ISO 9001:2015 company, we are committed to world-class standards, including:

- Fully integrated solution-based approaches
- Robust Quality Management Systems across all processes
- Skilled and experienced technical professionals and trainers

We take pride in our reliability, innovation, and dedication to ensuring safety and accuracy in lifting and measurement applications.

Safe Load Indicator for Hydra Cranes

In today's demanding lifting operations, safety and precision are non-negotiable. To meet these essential needs, Saras Equipments Pvt. Ltd. offers a cutting-edge Safe Load Indicator (SLI) system, specifically designed for Hydra cranes.

Our SLI system is a vital safety device that continuously monitors and displays critical load parameters during crane operations. It alerts the operator in real-time when the crane is approaching or exceeding its safe lifting capacity—thereby preventing overloading, structural damage, and potential accidents.

Designed to comply with industry safety standards, our Hydra Crane SLI features:

- Real-time Load Monitoring
- Overload Alarms (Visual & Audible)
- Boom Angle and Length Sensing
- Accurate Load-Radius Calculation
- Relay Cut-Off for Safety Lock
- Rugged, Weather-Resistant Build (IP65 Rated)

With over a decade of experience in crane safety systems, Saras Equipments combines technology, reliability, and compliance to provide a complete load monitoring solution. Our SLI not only safeguards equipment but also empowers operators with the confidence to work within safe operating limits.

Choose Saras SLI — your partner in lifting safety.



Automatic Safe Load Indicator :-

Automatic Safe Load Indicator consists of display unit with power supply, tension meter with load cell/pressure sensors, cable drum with angle sensor and boom sensor, limit switch with weight, complete connecting wires, buzzer and hydraulic cut off system. It is micro controller based software which is compatible to work in all conditions. It is fully based and designed according to the load chart of the crane and therefore it provides full safety to the crane. Avoid accident and damage due to overload and rough operation. The crane is fitted with multiple sensors, for each of the measured parameters, which are then further displayed in the operator's cabin for his benefit. Easy installation on site and easy to handle. It works in all climate condition. System is user friendly and Less power consumption. It include RS232 connection it helps to transfer the data and connect more display option. It consists of Solenoid valve for hydraulic cutoff for better life and accuracy.

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Provided Parameters

- Actual Load
- Safe Load
- Boom Angle/Radius
- Boom Length
- Selected Falls
- Selected Mode
- Percentage Graph
- Over Load Alert
(Visual,Audible,Physical Cut Off)
- A2B Alert (Visual, Audible,
Physical Cut Off)
- Unsafe Condition Alert (Visual,
Audible, Physical Cut Off)

Features

- Latest ARM Microprocessor
- Easy To Install and Operate
- IP65 flash Proof
- Product Warranty
- Paper Less Warranty
- Globally Service Support
Available
- Lifetime Telephonic Support
& Simple Onboard
Calibration
- Made In India

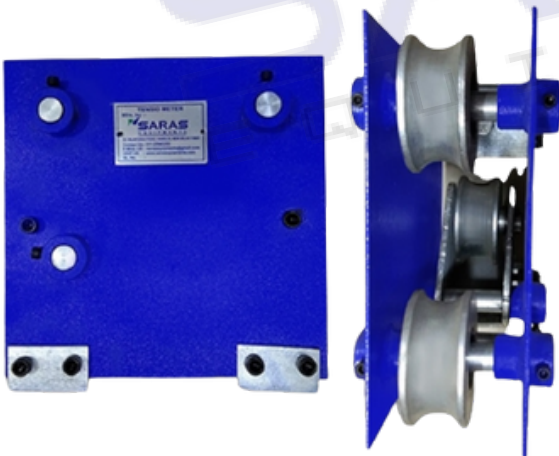
Product

1. Safe Load Indicator



The Safe Load Indicator (SLI) Display Unit is a compact, user-friendly interface that provides real-time information on load weight, boom angle, and operating radius. Designed for Hydra cranes, it alerts the operator with visual and audible warnings if the crane approaches or exceeds safe lifting limits. With a clear digital display, built-in overload buzzer, and optional relay cut-off, it ensures safe and efficient crane operations in all working conditions.

2. Tension Meter (Load Sensor)



The offered Tension Meter is designed to calculate the load by measuring the tension in the crane's rope. It provides an indirect yet accurate method for determining the lifted load, ensuring safer crane operations. Widely used in construction and lifting equipment, this device plays a key role in load monitoring and overload prevention. The system typically comprises a load cell and a precision pulley, which work together to sense the tension in the rope and relay the corresponding load value in real-time.

3. Limit Switch with Weight



The A2B Limit Switch is a critical safety device used in cranes to prevent the "two-block" condition, which occurs when the crane hook block comes into contact with the boom tip or trolley block. This condition can cause severe damage to equipment or even lead to accidents.



4. Cable Reeling Drum

The Cable Reeling Drum with Sensor serves a dual purpose—it accurately indicates both boom angle and boom length during crane operations. Designed for durability and precision, this unit plays a crucial role in ensuring safe and efficient lifting.



5. Solenoid valves

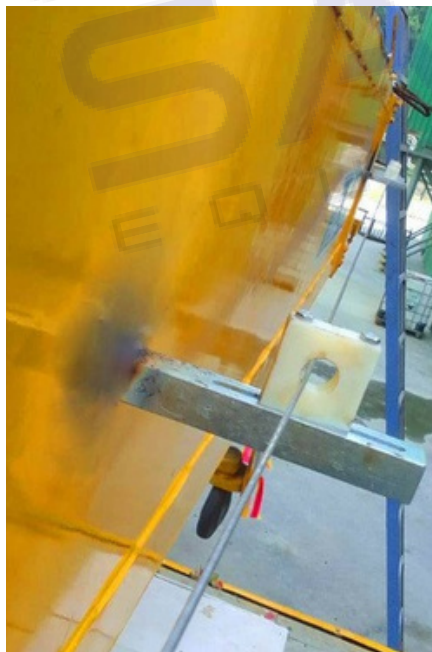
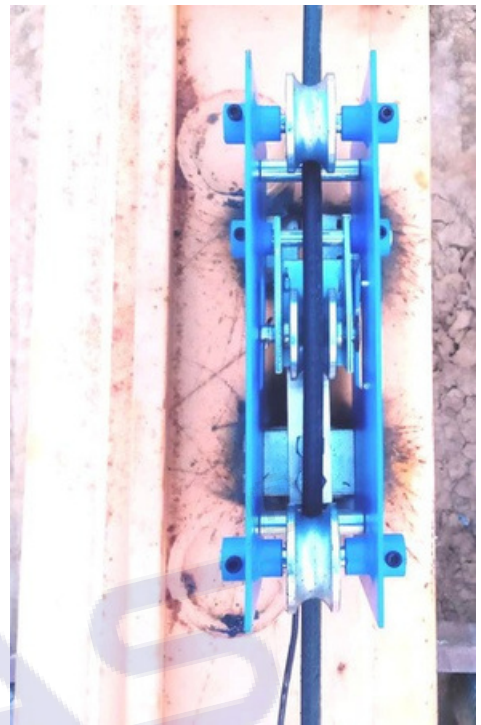
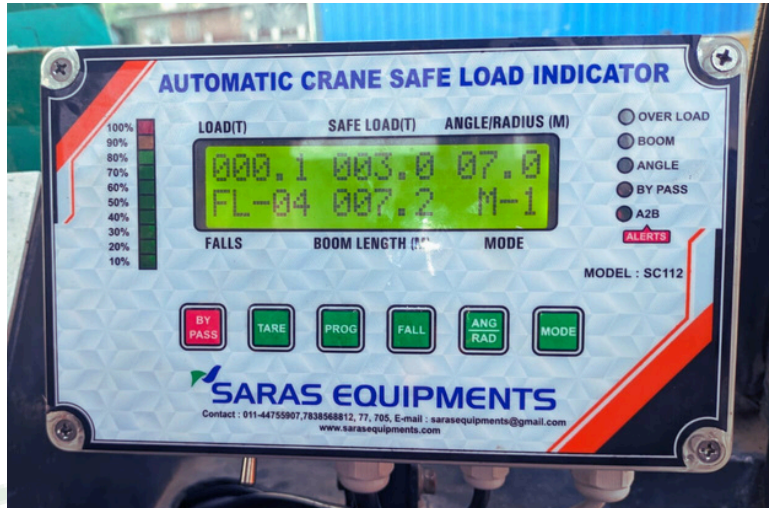
Solenoid valves are electromechanical devices used to control the flow of hydraulic or pneumatic fluids in crane and industrial systems. Operated by an electric current through a solenoid coil, these valves offer fast, precise, and reliable control of fluid direction and pressure.



6. Rope Protector

The Rope Protector is designed to maintain the integrity of the rope and extend its service life, especially in vertical lifeline, rescue, descent, and positioning applications. It is ideal for protecting the rope that runs from the crane boom to the crane hook.

Installation Photos



WE HAVE LARGE NUMBER OF SATISFIED CLIENT LIST THERE ARE SOME:-



Our Exports Customer



(AN ISO CERTIFIED 9001:2015)

Building Number, 12, Delhi 110041

Mail us at: sarasequipments@gmail.com

Visit us at: www.sarasequipments.com