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 over the last 18 years been involved in the business of Exporting, designing & manufacturing, Electronics Industrial products, Testing equipments, sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

We are specialized in providing consultancy for itemized engineering Test ring and Projects. We are also interested in taking - up the project development, recommending and mfg. sensing and related components, service providing in installation & commissioning.

We are in this field from last 15 years and also Exporting our products to USA, Germany, Belgium, Turkey, Australia, UAE, Singapore, Spain, Brazil, New Zealand, Philippines, UK, Croatia and African countries. We have good track record of import substitute high end equipment development and supplying to leading industries and government institutes.



SAFE LOAD INDICATOR

Multi purpose applications - Mobile cranes, Hydraulic and lattice, Container handlers. Pressure or load cell force sensing options.

Continuous display of operating radius, rated capacity, boom length and boom angle

Audible and visual pre-warning of overload and overload cut-off.

Tare facility of lifted load readings.

Reeving selection of up to 50 parts of line, up to 5 parts on fly jib.

Power supply capable of inputs ranging from 9 to 24VDC with crane voltage out of range warnings. Also AC committable. These units have proved to be reliable and easy to use. Optional data logging facilities- easily downloadable to laptop

System's consist of a Very compact display cum computer unit, Our computer is most compact and easy serviceable compared to our completers. Single Board computer have advantage over two part system of Less wiring, low mounting space requirement.

SAFE LOAD INDICATOR



Digital Display Unit



FEATURES

The display constantly updates the following information:

Load on the Hook Current Capacity or Percent of Current Capacity

Choice of Operating Radius / Boom Angle / Boom Length / Boom Tip Height

Current Crane Configuration

Alert or Alarm Conditions

System Status

Any Special Conditions Specific to the Crane

Options include:

Dead End Tensiometer

Running Line Tensiometer

Load Sensing Pins

Boom Length Sensor (for telescoping boom applications)

Boom Angle Sensor

List Angle Sensor for Barge or Ship Cranes

Anti-Two-Block

Hook Travel / Rope Deployment Monitor

Shutdown Relays

Horn / Klaxon

Lift recorder with PC interface Wireless

Custom Applications

Cable Real Drum



System Configurations:

Safe-Load Indicating User Selectable Sea States Multiple Parts of Line (Falls)

Front Panel Displays:

Lift Capacity (SWL) Load on Hook Boom Angle or Boom Radius, dependant upon Crane Load Charts Percent Capacity Number of Falls Sea State Selected Approach to Overload and Overload

Menu Configurations:

Number of Falls Parts of Line Parts of Line Sea States Calibration Diagnostics Units selection

System Outputs:

Volt-Free Relay Contacts for: Overload Out of Angle Last Wrap (requires drum monitor) Anti-2Block (requires drum monitor)

Load Cell





PERFORMANCE SPECIFICATIONS:

Hook Load Resolution: Angle Accuracy: Angle Resolution: Radius Resolution: System Response Time: Alert Set Point Alarm Set Point Overload Relay Load Display Units Power Requirements < 0.10 ton < +/- 1.000 < +/- 1.000 < +/-5.0 ft Maximum Load 0.25 Seconds

volt free Tonnes or Tons/Kg :220 Volts AC, 50 Hz, 25w or 12 Volts DC, 25w

OPTIONAL FEATURES:

Analog Outputs:

Overload Out of Angle Last Wrap (requires drum monitor) Anti-2Block (requires drum monitor)

Digital Outputs:

Data Stored on RS232 Protocols

Optional Features

3 outputs are available for: Volt-Free Relay Contacts for: Load, Capacity and Angle Overload Out of Angle

Data Logging/Recording:

Storage: 4,000 lifts Date and Time Stamping Boom Angle (Min and Max) Load Radius (Min and Max) Load Radius (Min and Max) Sea State Selected Slew Position (optional) Operator ID (optional) Logged data downloadable in ASC 1 format

OPTIONAL EQUIPMENTS:

Anti-2 Block Sensor Slew Ring Position Sensor Wire Rope Payout Sensor (drum monitor) Telemetry Data Communications (Duplex) Data Transmission from Operator's Data Transmission from Operator's. Display To Remote PC/Display Ton-Mile Totalizer Hand-Held Remote Display via Telemetry Remote PC Display and Lift Recording Boom Tip Hardware: Zone 1 Hazardous Area, Div. 1 or 2 Cab Components: Zone 1, Div. 2



Angle Sensor

Pressure Sensor

A2B Switch

