



# TI 880

**Hard-Wired or Duplex  
Telemetry**

**Load Moment Measurement &  
Recording**

**Guarding Your Load<sup>®</sup>**

Operator friendly display with clear indication of Load, Angle and Capacity.

The system displays all the information necessary to safely operate a crane.

Full digital signaling allows superb diagnostic routines, with easy installation and calibration.



**Typical Display - TI-880**

**SENTINEL**

*The Load Management People<sup>®</sup>*

**Proudly Serving the Petroleum Industry Since 1984.**

- Rugged Construction
- Outstanding Accuracy
- Recording Facilities
- Easy Maintenance
- Simple Diagnostics
- Semi-Automatic Calibration
- Digital Signaling
- Solid State for Reliability

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## Technical Specifications

### TI-880 Crane Safe-Load Indicator (Two Hook)

**System Configurations:**

Two Hook 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  
Hook Selected (Main or Auxiliary)  
Approach to Overload and Overload  
In a tri-color bar graph (vacuum  
Fluorescent display).

**Menu Configurations:**

Number of Falls  
Parts of Line  
Hook Selected  
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)

**Performance Specifications:**

Hook Load Accuracy: < +/- 2.00%,  
FS  
Hook Load Resolution: < 0.10 ton  
Angle Accuracy: < +/- 0.25°  
Angle Resolution: < +/- 0.50°  
Radius Resolution: < +/- 1.0 ft  
System Response Time: 0.25 Seconds  
Alert Set Point  
Alarm Set Point  
Overload Relay, form "C", volt free  
Load Display Units, Tonnes or Tons  
Power Requirements:  
90 – 246 Volts AC, 50 – 60 Hz, 25w  
or 24 Volts DC, 25w  
Boom Tip Enclosure:  
1.5 mm, 316L stainless steel  
Environmental Rating to NEMA 6X  
(IP67)  
Display Enclosure:  
Marine Aluminum, NEMA 4X  
(IP65)  
Cabling/Wiring: 4C 0.75 mm, dual

**Optional Features****Digital Outputs:**

Data Stored on RS232 Protocols

**Analog Outputs:**

3 outputs are available for:  
Load, Capacity and Angle

**Optional Features (cont'd)****Data Logging/Recording:**

Storage: 4,000 lifts  
Date and Time Stamping  
Maximum Load  
Boom Angle (Min and Max)  
Load Radius (Min and Max)  
Parts of Line Selected  
Sea State Selected  
Slew Position (optional)  
Operator ID (optional)  
Logged data downloadable in ASC 1  
format  
Compatible with Microsoft Excel™

**Optional Equipment:**

Anti-2Block Sensor  
Slew Ring Position Sensor  
Wire Rope Payout Sensor (drum  
monitor)  
Telemetry Data Communications  
(Duplex)  
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

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