

Libra

digital loadcell system

LIBRA IS A FULLY FEATURED DIGITAL LOADCELL SYSTEM UTILISING A LOAD MEASURING SHACKLE AND A POWERFUL AND EASY TO USE SOFTWARE PROGRAM FOR DISPLAYING SUSPENDED LOADS IN A VARIETY OF FORMATS



features

Libra has been designed to meet the increasing need for an accurate load measuring system to work hand in hand with today's complex rigging requirements.

Ground-breaking show designs and sophisticated motion control along with an increasingly safety-aware environment mean that knowing exactly what loads are being imposed on a structure and its lifting points has never been more important.

The innovative **Libra** shackle pin is designed to work exclusively with the world-wide recognised Crosby safety bow shackle. A direct replacement for the 'red pin', the **Libra** shackle maintains a safety factor of 5:1 up to the full rated load.

- 3.25 or 4.5T capacities at 5:1 safety factor allowing 10:1 safety factors when rigging one and two tonne hoists
- Uses the globally recognised and accepted Crosby bow shackle
- Digital data connection for simple and straightforward cabling
- On-board load readout using highly visible LED displays
- Easy to use menu system on the shackle itself
- Pro and Basic interface units available
- USB connection to the Libra software
- Ethernet connectivity available on the Libra Pro
- Libra Pro interface includes relay switching contacts for easy connection of alarm beacons and sounders, and integration into hoist control systems
- Libra Pro interface designed for 19" rack mounting
- Compatible with Elevation 1+ loadcell inputs
- Compatible with Smart 8 and Elevation 24 loadcell inputs
- Compatible with K2 or Vector software packages
- XLR4 connectors for cost-effective cabling, uses cable and pin-out commonly used for Colour Scrollers
- Free, easy-to-use software with unlimited load cell monitoring
- Full grouping capabilities with 'groups within groups' functionality
- Multiple viewing options including tables, charts and a DXF CAD import facility
- Kilograms or pounds display can be set on both shackle and software
- CE marked

Manufactured in the
United Kingdom by
Kinesys Projects Limited

www.kinesys.co.uk

specifications

Power Supply

- **Libra Shackle:** 9-24V DC via XLR connector
internal reverse-voltage protection
- **Interface:** External low voltage supply - 90-264v
50-60Hz (Libra Basic)
Internal low voltage supply - 90-264v
50-60Hz (Libra Pro)

Connections

- **Libra Shackle:** Power and RS485 data: 4 pin XLR
- **Libra Basic:** Power: 2.1mm DC power plug
Load Cells: 4 pin XLR socket (max 24 load cells)
Data: USB Type B
- **Libra Pro:** Power: Neutrik Powercon type A
Load Cells: 4 pin XLR Socket x 4 (max 32 load cells per outlet)
Data: USB Type B
Data: RJ45 Ethercon
Switched power outlets: 2 x Neutrik Powercon type B
Relay contacts: Phoenix 6-way pluggable terminal

Software

- Compatible with Microsoft Windows 2000, XP and Vista.
Minimum system requirements:
1024 x 768 resolution display
5 GB free hard disk space
USB 1.1 port

User Interface

- **Shackle:** 4 digit LED display
3 menu buttons
Display and set load, address, tare, units, display timeout, maximum and minimum load
- **Pro Interface:** 2 x 16 character LCD display
cursor keys
Display and set current load per cell or per group, alarm thresholds

Dimensions

- **Libra Basic Interface Unit:** 120mm x 78mm x 43mm (4.7 x 3.1 x 1.1") excluding connectors
- **Libra Pro Interface Unit:** 483mm x 300mm x 44mm (19 x 11.8 x 1.75") excluding connectors - 1U 19" rack mounting

Weight

- 3.25T Shackle: 870g (1.9 lb)
- 4.50T Shackle: 1300g (2.8 lb)

accessories

- **Libra Basic Interface Unit**
USB interface; single outlet for up to 24 load cells
- **Libra Pro Interface Unit**
USB and Ethernet interfaces; 4 outlets for up to 32 load cells each; power and low voltage switching relays for alarms and control interfacing; LCD display
- **Libra PC Software Package**
- **XLR4 Connection Cables**
- **Elevation 1+ Connection Cable**

