slingco®

LOAD SENSING DEVICE

SET-UP AND MAINTENANCE INFORMATION

TRUSTED INNOVATION

WELCOME TO YOUR LOAD SENSING DEVICE ESSENTIAL USER GUIDE. THIS DOCUMENT HIGHLIGHTS THE BASIC FUNCTIONS OF THE DEVICE

CONTENTS

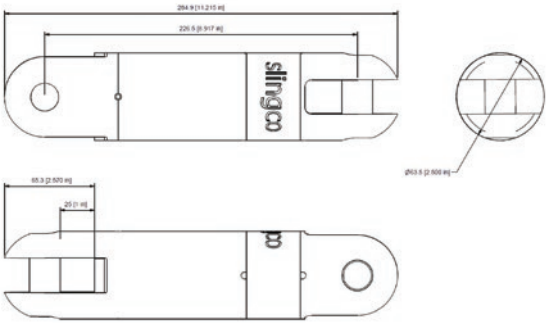
Parts Checklist	2
Technical Information	3
Safety Information	4
General Maintenance	5
Component Information	6
Getting Started	7
Set-up	8
Changing the Battery	9
Software	10
Software Live View	11
LED Information	12
FCC / IC Regulations	13
Protective Case	14
Your Case	15
Spare Parts List	16

PARTS CHECKLIST

In your pack you should receive the following:

- Load Sensing Device (LSD)
- Antenna
- Antenna Receiver Unit
- Getac T800
- Getac T800 Charger
- Battery Charger
- Battery x1
- Spare Battery x1

TECHNICAL INFORMATION



WORKING LOAD LIMIT
20,000 lbf

WORKING TEMPERATURE
-15 to +80°C

DATA TRANSMISSION
Wireless

RANGE
3,000ft. (line of sight)

BATTERY
Rechargeable Li-ion (3.7V)

BATTERY LIFE
8 hours max.

RECEIVER STATION
Multi-line display (see p5).
Access to logs via USB port.

WORKING DURATION
140 hours of recording

SAFETY INFORMATION

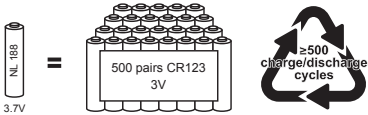
LOAD SENSING DEVICE

Please read the following information. Failure to do so may result in product failure or personal injury.

WARNING: Take caution when handling the load sensing device or package. Extra consideration should be given when working at height and/or near other personnel.

BATTERY

Li-ion rechargeable battery. 3100mAh 18650 3.7V 11.5Wh
Integrated battery overcharge/ discharge protection circuits



WARNING: battery may explode or catch fire if mistreated. Do not disassemble, heat above 212°F (100°C) or incinerate. Do not mix batteries or different types/brands. Keep away from children.

RECEIVER / ANTENNA

For your convenience the base of the antenna is magnetic. It is strongly recommended that during storage and use this is kept well away from electronic components.

The LSD uses a calibrated load cell and as such requires calibration/testing when returned.

If you have any concerns about the use of or condition of equipment upon set-up or information shown here please contact your supplier before use.

GENERAL MAINTENANCE

TAKING CARE OF THE LOAD SENSING DEVICE
For optimal performance adhere to the following where possible:

- Avoid continuous use in hostile environments such as, but not limited to, areas of high humidity, extreme temperatures or heavy dust.
- Care should be taken to avoid use of this product assembly in areas where metallic dust is present.
- This product contains small components such as socket cap head and set screws
- Avoid movement from extreme conditions to another. A temperature difference of more than 10°C (18°F) may result in condensation within the units potentially damaging to componentry.

ADDITIONAL GUIDELINES
When cleaning the LSD:

- Use a damp cloth to wipe down surfaces.
- Do not use detergent where alkaline is present.
- Do not leave water lying on the surfaces of the LSD.
- Ensure unit is dry before use in freezing environments (0°C / 32°F or below) as this may damage the unit.

OTHER CONSIDERATIONS

- The LSD unit may experience a shortened operation time when used in extreme temperature conditions for long periods of time. This is due to the chemical characteristics of the batteries used in the various components.
- Always ensure the batteries are fully charged before use.
- Do not leave components with batteries in storage in excess of six months.

COMPONENT INFORMATION

RECEIVER UNIT
This unit connects the antenna to the PC so you can view live data during application. For your convenience, set this unit up before the LSD/transmitting unit.

DOWNLOAD CABLE
To be used when pulling historical data from the LSD to review.

NOTE: The connector on this lead is handed, take extra care when connecting.

GETTING STARTED

SWITCHING ON

There is no physical 'On/Off' button on the device, it will automatically respond when power is received. The LSD will power down if no load has been detected in two hours.

ACTIVATING THE SOFTWARE FOR USE

The whole process of using your Load Sensing Device has been made as simple as possible. Simply open the desktop application and plug the receiver station into your device in order to begin reading live data.

ACCESSING THE LSD HISTORICAL DATA LOG

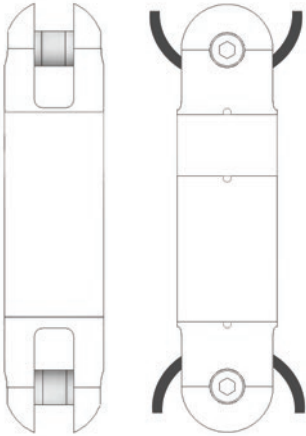
Using the Download Cable, connect the laptop to the LSD as shown opposite (details on how to remove the cap are shown on page 8).

The battery must be removed when doing so.

Open User PC App from your PC.

SET-UP

Pulling implements should pass through the clevis pins (as shown, far right).



REMOVING CLEVIS PINS

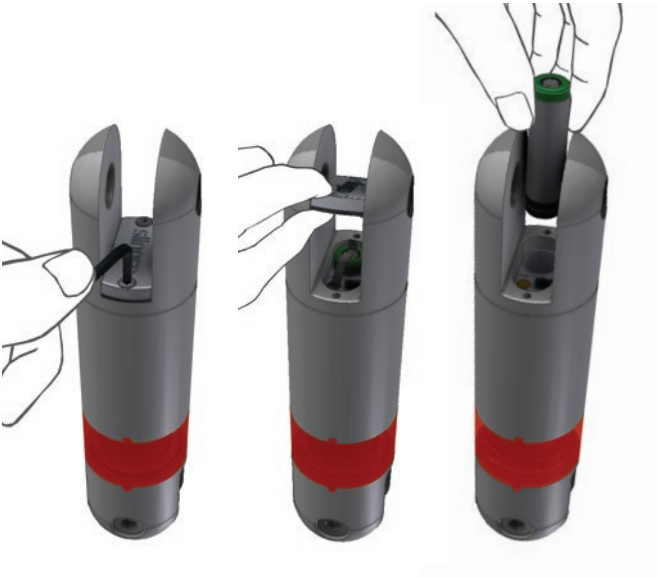
You will need a 3/8 Allen key. Use this to remove the pins as shown below.

CHANGING THE BATTERY

Using a 9/64 Allen Key remove the two bolts securing the lid which should easily remove after doing so.

The battery is then easily accessible.

Simply reverse this procedure when replacing battery.



YOUR SOFTWARE

VIEW RECORDED LOGS
This allows you to open previously saved logs in order to review historical data.

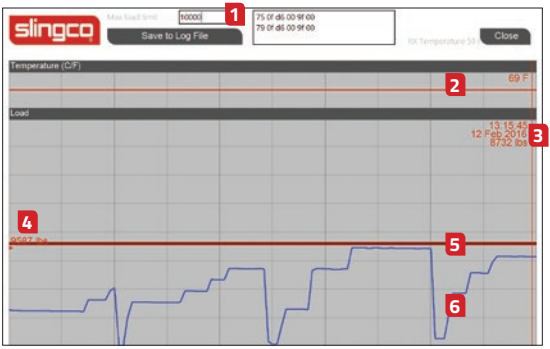
EDIT SETTINGS
Edit local settings on your Load Sensing Device.

DOWNLOAD LOG
With your LSD plugged in to the PC clicking 'Download log' will set the LED on the LSD to solid green. The Software is now pulling data from the LSD to the computer.

LIVE VIEW
The live view displays live data when the receiver box is plugged in and the LSD is in an active pull.

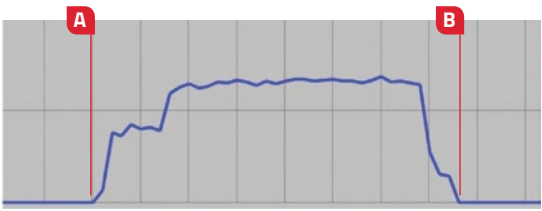
'LSD User interface' is the application which will display live readings from the wireless transmitting device. Select 'Live View' this will automatically search for a signal.

SOFTWARE - LIVE VIEW



1. User defined maximum load
2. Separate temperature display
3. Live display
4. User defined maximum load displayed in view
5. Visual of user defined maximum load
6. Live load display

The diagram below demonstrates the graph's behaviour when load is both applied (A) and released (B).



LED INFORMATION

FLASHING GREEN LIGHT
Unit is powered up

SOLID GREEN LIGHT
Unit is plugged into PC - downloading data.

FLASHING RED LIGHT
Unit has detected load above designated threshold. Needs to be returned for calibration.

FCC/IC REGULATIONS

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no ensured specification that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PROTECTIVE CASE

Your case is a maximum protection, customised unit exclusive to the LSD you have received. Rated at IP67 some of the specifications are listed below:

- Watertight seal on lid
- Automatic Pressure Release Valve
- Easy to open double throw latches
- Load tested soft grip handle
- Holes for double padlocking
- Thick body
- Extra fixing points
- Full length hinges
- Nylon pins, corrosion free

YOUR CASE

Protective Case	1
Load Sensing Device	2
Antenna	3
Getac Shoulder Strap & Getac T800 Charger	4
Download Cable & Antenna Lead	5
Battery Charger	6
Battery Charger Lead	7
x2 Batteries	8
Magnetic Base (Antenna)	9
Receiver station	10
Getac T800	11

SPARE PARTS LIST

Slingco Part No	Item
BATTERY CAP COVER SET	
SWI4326	Metal Cover
SWI4035	Rubber Gasket
FGK4687	Metal Cover Cap Heads
LSD	
SWI2748	Clevis Pin
ZSW5630	Download Cable
ZSW5631	Receiver Box
ANTENNA	
MIS4768	Antenna Assembly
POWER	
MIS4689	Battery Charger & Cable
MIS4294	Batteries
TABLET	
MIS4771	LSD Tough Tablet
MIS4770	Shoulder strap
- - -	Charger
CASE	
LSS4775	Custom Protective Case

Slingco America, Inc.
130 Celtic Blvd, Tyrone, Georgia, 30290, USA
TOLL FREE: 888 685 9478
Fax: 888 728 4047
sales@cablegrip.com

Slingco Limited
Station Road, Facit, Whitworth,
Lancashire, OL12 8LJ, United Kingdom
Tel: +44 [0]1706 855558
Fax: +44 [0]1706 855559
sales@slingco.com

www.slingco.com