



smartlink² atto Guide

Product Description

smartlink² atto are wireless load sensors, manufactured in stainless steel to be the lightest, strongest and smallest load sensors on the market.

How it works...

Simply add inline of any carabiners or soft shackles with a diameter of 12mm. Easily connect the sensor to your phone via the latest smartphone app or display electronics via optional smartfittings gateway for immediate load data.

Loading with carabiners and strops

smartlink² atto is designed to be loaded inline with soft shackles or carabiners with a diameter of 12mm, for the most accurate load measurement.

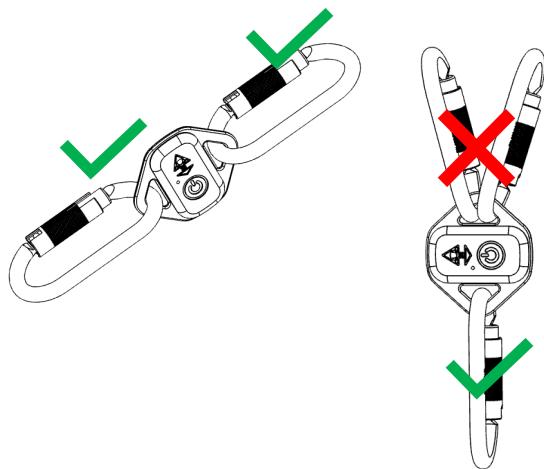


Figure 1: Incorrect and correct attachments loading

The smartlink² atto is designed to fit **one** carabiner or soft shackle through each aperture. We strongly advise against loading more than one attachment point in each aperture..

Strops and carabiners

Cyclops recommends using strops or carabiners built to a diameter of 12mm to achieve the stated $\pm 1\%$ of working load limit (WLL) accuracy.

Safety

Please read all instructions before using smartlink² atto to measure loads. Always perform a safety evaluation before use to ensure that the use of the sensor is not dangerous to nearby people or property.

smartlink² atto is **not intended** to support personnel working aloft. Please follow all standard working aloft safety procedures.

The sensor should be ceased from operation if there is an error indication either in the app or external display.

Overload

The WLL of a smartlink² atto must **NOT** be exceeded, as this may cause damage to the internal instrumentation and will invalidate the warranty.

SHOCK LOADING (i.e. strop/carabiners failure) OR OVERLOADING OVER 150% OF WLL MAY RESULT IN PERMANENT DAMAGE TO THE SENSOR THAT WILL REQUIRE RECALIBRATION.

Inspection and maintenance

It is recommended to check the dimensions of the sensor periodically as stated in the technical data.

The only maintenance needed is to charge the sensor with the provided charger. Please do not attempt to repair the sensor by removing any parts from the product. Please contact Cyclops for further information.

Calibration

If smartlink² atto has been under load for a significant length of time, the sensor may take 1-2 minutes to return to zero when the load is removed. This is to be expected.

A significant impact to the body of the sensor can affect the calibration. This would require the device to be returned to Cyclops for inspection and re-calibration.

smartpower button

smartlink² atto has 3 modes: powered on, extended use & off.

Mode	Powered on	Extended use	Powered off
A quick button press shows	Green flash	Red flash	Red flash
How to activate mode	Long press to green flash	Long press to red flash	Very long press to red flash x2
Frequency	1 Hz	0.25Hz	No data
Ideal for	General usage	Battery saving	Shipping
Battery life	200 hrs	8000 hrs	2 years

Extended use and powered off modes can only be activated from powered on mode.

Wireless charging (⚡)

To charge smartlink² atto with the wireless charger, plug the charger into a USB port or power plug (not supplied), a quick blue flash indicates it has been powered on. Place the smartlink² atto on the charger with the wireless charging logo facing the charger.

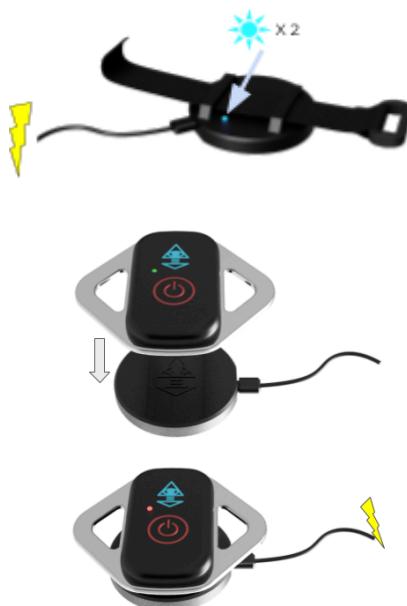


Figure 2: Charging procedure

Ensure that the smartlink² is powered on when charging, or else charging indication will not be visible. The sensor is charging when the LED constantly flashes red. The sensor is >90% charged when the LED turns green.

LED light indication

At <20% charge, LED indications during on and extended use modes will be a double flash.

When the LED flashes red & green together, it indicates the sensor is in direct connection mode with the app or with a 3rd party device.

Technical Data

Model	WLL (kg)	Dimensions (mm)	Mass (g)	Accuracy range* (kg)
atto	250	79x68x3	75	±2

Frequency 1Hz (from factory, adjustable)

Accuracy ±1% of WLL (between -10 to +40°C)

Body Material 2Cr13 Stainless Steel

Housing Material PC/ABS, IP 68 rated

Battery Lithium Polymer, 0.925Wh

*smartlink²'s are not warranted to be accurate for the purposes of buying/selling products by weight.

Contains FCC ID: 2A9FYSL02

Product Model: SG02, SG03, SG04, IN406, 7860, WP00, TS10, TS11, TS12, SE05, SE06

FCC 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 harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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 and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee 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 turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

RF warning:

This equipment complies with FCC or Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.