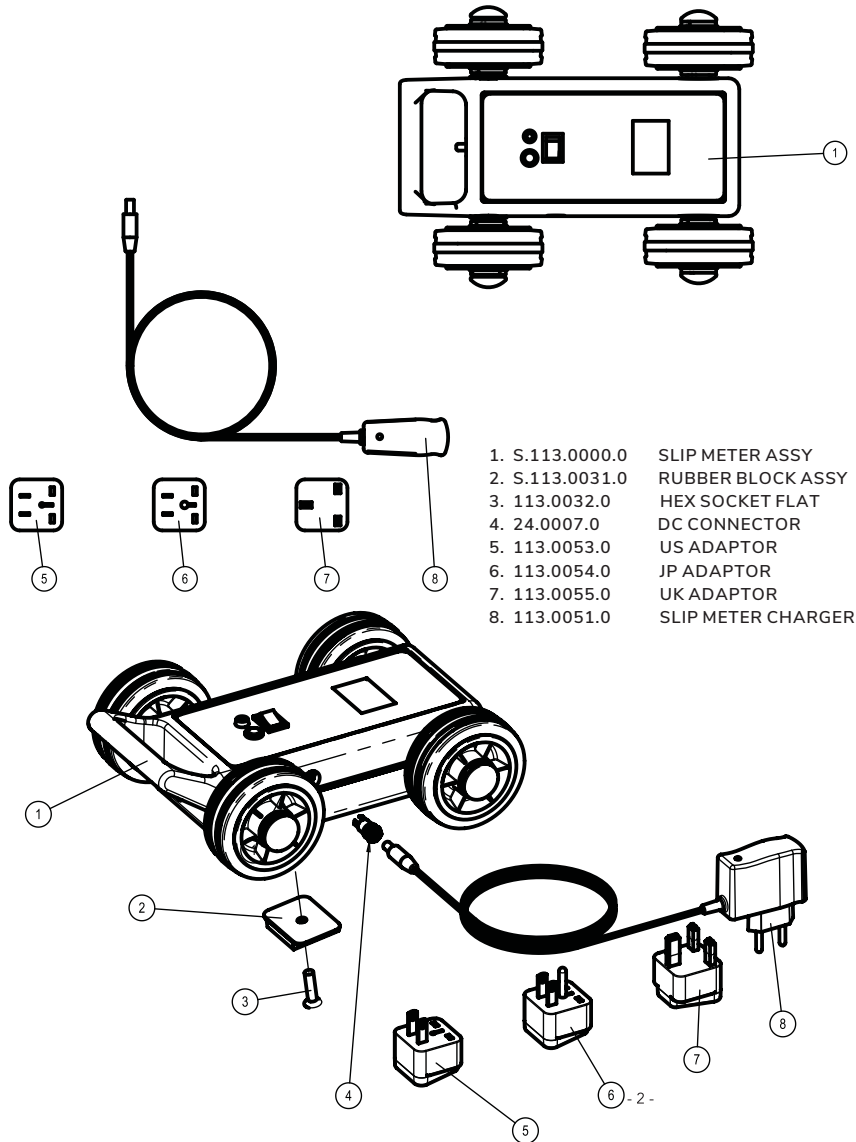




INSTRUCTION MANUAL

# SlipAlert

P/N: S.113.0000.0



The device is only suitable for use in areas where there is no risk of fire.	Read these instructions before using this device.	Read these Safety Messages before operating.	<b>WARNING</b> Strong Magnets

Thank you for choosing i-KNOW SlipAlert the quick, easy and accurate way to measure the i-KNOW SlipAlert Test Value (STV) of your floors (and all pedestrian walking surfaces, indoors and outdoors).

### Standard Contents

1. Robust i-KNOW SlipAlert carry case
2. i-KNOW ramp
3. i-KNOW SlipAlert
4. Spare slider
5. Abrasive paper (for use if slider edge requires smoothing)
6. User Guide (this document)
7. Spray bottle
8. ATP meter (OPTION) STANDARD IN PRO
9. Gloss meter (OPTION) STANDARD IN PRO
10. Measuring cup (OPTION) STANDARD IN PRO

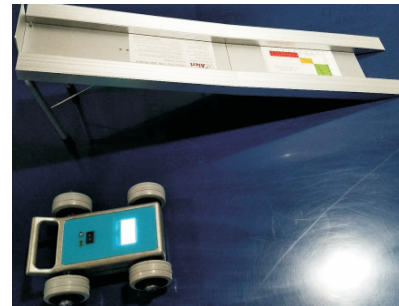


Please read through this user guide to familiarize yourself with best practice in use of i-KNOW SlipAlert and best practice in measuring floor safety. i-KNOW SlipAlert is designed for easy use and we hope you will rarely need to refer to this user guide.

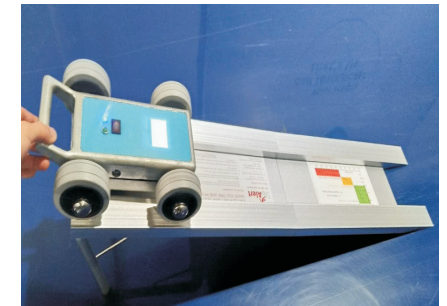
#### Quick and Easy Floor Testing

- a) Unfold ramp and switch on i-KNOW SlipAlert (**Screen light up**).
- b) Place i-KNOW SlipAlert near to top of ramp and pull to very top (**status light light up**)
- c) Release. When i-KNOW SlipAlert stops read i-KNOW SlipAlert Test Value (STV).

Repeat steps b and c three times to ensure accuracy.



Step a



Step b



Step c

!-KNOW SlipAlert results (wet and dry) correlate with TRL Pendulum

**Warnings:** !-KNOW SlipAlert and its carry case are heavy. Please transport it carefully. Always check !-KNOW SlipAlert before use. !-KNOW SlipAlert, the ramp and the carry case can cause a trip hazard if left unattended. Use !-KNOW SlipAlert for floor measuring only. !-KNOW SlipAlert LLP accepts no liability for inappropriate or negligent use.

First time user...  
Familiarize yourself with operating instructions and safety warnings before using !-KNOW SlipAlert.

#### Quick and Easy Floor Testing

- Unfold ramp and switch on !-KNOW SlipAlert (**Screen light up**).
- Place !-KNOW SlipAlert near to top of ramp and pull to verify top (**status light up**)
- Release. When !-KNOW SlipAlert stops read !-KNOW SlipAlert Test Value (STV).

Repeat steps b and c three times.

!-KNOW SlipAlert fast easy and accurate floor testing. The only easy to use test machine proven to correlate (wet and dry) with TRL Pendulum. Tested by UK HSE/HSL and in BS8204.

#### PREPARATION...

Before measuring with !-KNOW SlipAlert...  
Carefully assemble ramp, check wheels, battery and slider.  
Ramp assembly

#### FLOOR SAFETY MATTERS...

!-KNOW SlipAlert and your cleaning regime...  
!-KNOW SlipAlert can help you to improve your cleaning regime and therefore to reduce slipping accidents. With !-KNOW SlipAlert you can check if high risk floors have been cleaned properly and know which floors need special care when the floor is wet (after cleaning or a spillage).

Prevent injuries reduce insurance liability...  
The UK HSE report that slips and trips are the single biggest cause of injuries at work. Their 5-step approach to risk assessment suggests measuring the risk and recording the findings. With !-KNOW SlipAlert you can quickly and easily record meaningful measures of slip resistance and monitor the results over time to look for changes. These changes will give you advance warning of potential slip risks and will help you to know of any lapses in your cleaning regime that may expose people to the risk of slipping.

Month	SlipAlert Measure
M1	126
M2	127
M3	126
M4	128
M5	127
M6	133

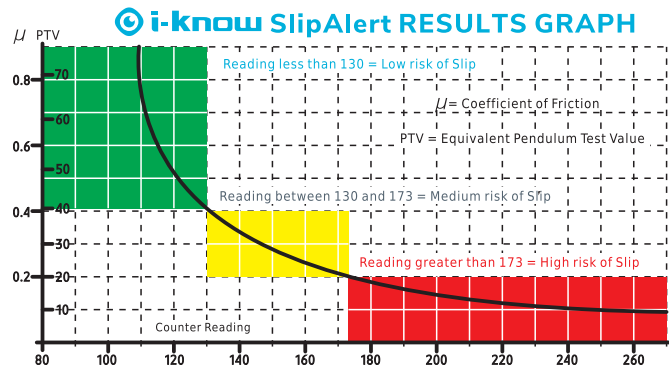
When to test...

We recommend you test floors that cause concern (feel slippery, slip accidents occur etc)

- Initial tests (you will know the safety parameters of your floors in both wet and dry conditions)
- Test floors whenever there is an accident or near miss (compare with past results)
- Test floors before and after changes: polishing, re-coating, chemical spillage etc.

## I-KNOW SLIPALERT PENDULUM CORRELATION

i-KNOW SlipAlert is the easy to use test device that correlates with the Pendulum in both wet and dry conditions.



### Converting STV to PTV

Converting your i-KNOW SlipAlert Test Value (STV) into the corresponding Pendulum Test Value (PTV) is easy. Use the graph attached to the ramp. Find the i-KNOW SlipAlert Test Value (STV) on the x-axis, follow the vertical line up from that point till it intersects with the curve. Read across to the y-axis to discover the corresponding PTV e.g. a STV of 173 corresponds to a PTV of 20.

**Note:** A high i-KNOW SlipAlert Test Value corresponds to a high risk of slip. The i-KNOW SlipAlert travels further on a slippery surface. The opposite is true with PTV readings; a higher PTV applies to safer floors.

We can supply an excel spreadsheet for precise conversion from STV to PTV (or vice versa). Please contact Jenny@i-KNOW SlipAlert.com

For more information about i-KNOW SlipAlert and Pendulum correlation please visit [www.i-KNOW SlipAlert.com/pendulum](http://www.i-KNOW SlipAlert.com/pendulum)

- Unfold ramp and locate shoot bolts
- Unfold legs, clip in place and lock
- Carefully stand ramp on the flat surface to be measured

**Warnings:** Take care not to trap fingers when unfolding and assembling ramp. Take care not to leave ramp unattended. You should allow 2m clearance in front of base of ramp. i-KNOW SlipAlert will travel about 18 inches (45cm) on a very safe floor but will travel further on slippery floors.

### i-KNOW SlipAlert Wheel check

The wheels should turn freely. If i-KNOW SlipAlert has been dropped or damaged or the wheels are out of alignment this may invalidate test results.

### Battery Check

Lithium-ion battery installed and ready to switch on.

**Note:** Charge the i-KNOW SlipAlert battery when it runs low. The display is powered by battery, you should turn off the screen when you have ended up your testing.

### Slider Check

Slider should be properly secured, free from dirt or debris. When slider wear reaches fixing point rotate 180 degrees or replace with new slider.

### Important Note:

Measurements from first 3 runs with a new slider should be ignored. Before each set of tests, the slider edge should be wiped with lint free absorbent paper.

Use the sand paper to clean the shoe/brake material to avoid other elements disturbing the measurement.

Place the i-KNOW SlipAlert meter with the handle to the top, so the switch inside resets.

Element charging, the slip alert has a internal lion battery charged with an wxternal charger.

## MEASURING FLOORS...

Measuring floors with i-KNOW SlipAlert is quick easy and accurate.

- Unfold ramp and switch on i-KNOW SlipAlert (**Screen light up**)
- Place i-KNOW SlipAlert near to top of ramp and pull to very top (**status light light up**)
- Release. When i-KNOW SlipAlert stops read i-KNOW SlipAlert Test Value (STV).

Repeat steps b and c three times to ensure accuracy. Any significant variation in the 3 readings will most likely be contamination related.

3 steps to floor safety

You should evaluate the slip risk of all your floors and monitor to record any changes (caused by wear, contamination, or cleaning). Test...

1. periodically (to monitor results for unexpected changes)

2. floors whenever there is an accident or near miss

3. floors when they change: (before and after) polishing, re-coating,

chemical spillage etc

The benefits of measuring changes to a floor...

Understanding the safe operating parameters of your floors and having a

reliable early warning of changes to floors will enable you to take

appropriate action and to reduce slip accidents.

Keep records of the i-KNOW SlipAlert Test Value (STV) of your floors and

monitor changes over time. This will highlight the effects of wear on different

floor surfaces, the effectiveness of coatings, and the effectiveness of your

cleaning regime. Understanding these factors will help you make informed

decisions that improve floor safety and will help to eliminate poor operational

practices that may have increased the risk of slip accidents.

Month	M1	M2	M3	M4	M5	M6
SlipAlert Measure	126	127	126	128	127	133

## SLOPING FLOORS...

If there is enough space to test ACROSS the slope operate i-KNOW

SlipAlert in the normal way.

If testing DOWN the slope

1. Measure the angle of the slope in degrees. This can be done using a

spirit level phone app.

2. Using the chart below, find the equivalent i-KNOW SlipAlert "adjustment

value" based on the angle of the slope (to the nearest degree).

3. Position the i-KNOW SlipAlert ramp pointing directly down the slope.

4. Pull i-KNOW SlipAlert to the top of the ramp until counter resets to zero

(green light). Carefully allow i-KNOW SlipAlert to roll down the ramp

until the i-KNOW SlipAlert display matches the adjustment value.

Note: if i-KNOW SlipAlert rolls past the adjustment value take it back to

the top of the ramp and start again.

5. Briefly halt i-KNOW SlipAlert at the adjustment value before letting it go

as normal.

6. The i-KNOW SlipAlert Test Value (STV) obtained is a measure of the slip

resistance of the floor as if measured on the flat. A greater degree of slip

resistance is required for walking down a slope than on level ground.

SlipAlert Adjustment value	Angle of slope- to nearest degree
15	2°
20	3°
24	4°
28	5°
31	6°
34	7°
37	8°
40	9°

## I-KNOW SLIPALERT SLIDER PADS

i-KNOW SlipAlert can be used with different slider pads to suit different purposes. These include:

- i-KNOW SlipAlert Durable Slider
- 4S Slider (comes with special instructions for precision testing)
- TRL Slider
- Other sliders as required (e.g. anti-slip shoes)

The slider pad is designed to replicate the effects of a shoe heel striking the floor. You should use the slider most appropriate to your needs and the particulars of the floor you are testing.

### i-KNOW SlipAlert Durable Slider

Our most popular slider pad, cheaper and designed for durability, and consistent results. This slider has excellent correlation with Pendulum test results.

### 4S Slider...

Specially formulated by the Rubber and Plastics Research Association (RAPRA) for use with the Pendulum. The UK HSE recommends the use of the 4S slider with i-KNOW SlipAlert for optimal correlation with Pendulum results.

### TRL Slider

Used to simulate soft rubber or bare feet. Should be used for wet testing barefoot areas of flooring (wet leisure: e.g. pools, shower rooms, changing rooms)

### Other Sliders

Harlequin Dance Floor company simulate dancing shoes. Safety or anti-slip shoe testing. Contact Jenny for specialist sliders.

## TESTING FLOORS...

### Wet and dry floors

Floors should be tested in the wet/dry or both depending on how the floor is used. Most floors are designed for use in the dry. Some floors such as pool-sides, shower areas or changing room floors will often be wet. If you are testing a floor that is mostly dry but can become wet then it is helpful to know how much the i-KNOW SlipAlert Test Value (STV) changes in the wet.

**Note:** when switching between dry testing and wet testing, the first result with a dry slider will be different from the 3 subsequent results where both slider and floor are wet. The 3 subsequent tests simulate the worst case where the heel of the shoe is wet and strikes a wet floor surface.

### Averaging... and changing floor surfaces

A key feature of i-KNOW SlipAlert is that it is designed to give you an easy guide to the slip resistance over a large area of floor. This makes testing very quick and very easy. However care should be taken when testing across more than one flooring surface. Where possible take i-KNOW SlipAlert readings on a single surface.

**Note:** i-KNOW SlipAlert gives a very good indication of effective slip resistance on tiles. You should be aware that a stiletto heel striking exactly at the edge of a tile will probably slide slightly before finding grip in the grout or the next tile.

### The Science of Slipping

The science of slipping is complex and so you may find it useful to consult a specialist in floor safety. i-KNOW SlipAlert was invented by Dr Malcolm Bailey. i-KNOW SlipAlert LLP will be happy to help you find the information or advice that you need

We offer comprehensive training on all aspects of slip testing and slip prevention.

### CARING FOR YOUR i-KNOW SLIPALERT

Your i-KNOW SlipAlert is built to last. It is designed for low maintenance. All you should need to do is keep it clean, check the battery and slider, and store your i-KNOW SlipAlert safely to avoid damage.

Calibration Service  
Your i-KNOW SlipAlert does not require calibration in the same way that many mechanical instruments do. If the wheels turn freely i-KNOW SlipAlert must obey the laws of physics and will give consistent readings just like a steel tape measure. Your i-KNOW SlipAlert should give consistent and accurate readings for many years.

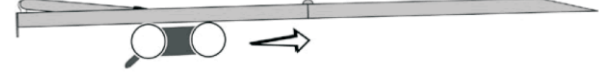
However, in line with UK HSE advice, we now offer a i-KNOW SlipAlert calibration service.

#### Self-Calibration

Checking that the wheels are turning freely is very easy.

1) Hold i-KNOW SlipAlert and spin each wheel independently. They should spin freely.

2) Assemble ramp but without the legs raised. Lay the ramp on a flat surface. The ramp will have a slight angle, just enough for the i-KNOW SlipAlert to roll from the top of the ramp to the base of the ramp.



3) Distance from top to toe of ramp should read 68+1.

#### Warranty and maintenance

Your i-KNOW SlipAlert comes with a 1 year warranty on all parts (excluding slider and battery). It should last for many years

### YOUR QUESTIONS ANSWERED

What can go wrong?...

Q I have measured the floor 4 times, three readings are the same but the first was different.

A The first reading may have been different if you were measuring a wet floor and the i-KNOW SlipAlert slider was dry.

Q I have checked the wheels on i-KNOW SlipAlert and one of the back wheels appears to be sticking

A Your i-KNOW SlipAlert has been damaged and this will affect the result. This can usually be corrected very easily, contact your supplier for advice.

Q Can I measure the slip resistance of a sloping floor?

A Yes. Use the i-KNOW SlipAlert Inclinator for an accurate measure of the slip resistance of the floor surface. Remember you will need greater slip resistance for safe walking on a sloping floor. Refer to our website or contact us for details.

Q Can I use i-KNOW SlipAlert to measure the effect of other contaminants such as oil on my floor?

A Yes. i-KNOW SlipAlert can be used to measure the effect of other contaminants (oil, mayonnaise, dust etc) on the i-KNOW SlipAlert Test Value (STV) of a floor. Clean the slider between each use. After testing floors with contaminants care should be taken to ensure i-KNOW SlipAlert is clean and dry before returning it to its case.