



Sparklike Laser Portable™ 2.1

Non-destructive insulating gas measurement device

FOR DOUBLE AND TRIPLE GLAZED INSULATING
GLASS UNITS WITH COATINGS AND LAMINATION

Developed and
manufactured
in Finland

Benefits

- Gas concentration levels can be measured at **any point in the production process**, at the **construction site**, or **after installation**.
- Measured units can be delivered to end-user — **Non-destructive** technology.
- Everyone can measure due to understandable **light signals** and **easy user interface**.
- Easy to handle in **different measuring positions** — Compact New ErgoGrip™ measuring head with three handles and start-buttons.
- **On-site measuring** due to compact trolley unit with 150 mm pneumatic wheels for easy maneuverability.

Features

- Measures accurately the insulating **gas concentration**, **glass thicknesses**, **cavity thicknesses**, and overall IG Units thickness
- Patented TDLAS technology
- Measures the residual oxygen — **any insulating gas can be checked**
- Portable device with **dual battery** — 5–8 hours cordless operation
- Technical support with remote connection
- **Barcode reader** included as a basic feature to trace your IG units and provide proof to your customers
- Bigger **12" touch screen** to help with measuring



Technical capabilities

Thickness measurement accuracy	± 50 µm (*)
Repeatability of the gas measurements	± 2 % (**)
Measurement time	18–21 s/DGU and 22–28 s/TGU
Maximum IG thickness	51 mm from surface 1 to 3/DGU from 1 to 5/TGU
Glass thickness range	2–23 mm
Spacer bar range/ cavity dimension	4–40 mm
Max. input power	250 W
Connections	4x circular multipin connector, RJ-45, 2x USB 2.0, VAC Power (C14), HDMI, Display Power Output
Display	12" Touch Screen
Data logging capability	Virtually unlimited
Battery	2x 7.5 Ah LiFePO ₄ , 12,8 V
Weight	28 kg
Dimensions (LxHxW)	
Trolley case	420 x 585 x 325 mm
Measuring head	320 x 310 x 195 mm
Device in operation	420 x 1300 x 390 mm

* Typical construction of the insulating glass unit

** At least 30 measurements are needed that 95 % confidence interval is valid



Sparklike CARE™ for Laser Portable 2.0 & 2.1

QUALITY MEASUREMENT WITH ANNUAL SPARKLIKE CARE™ SERVICE AGREEMENT

Not available in North America and South Korea

Keep your device in Top condition year by year

Obtain reliable gas measurement results by calibrating and servicing your device annually

Save on costs; on average 30% cheaper than long-term on-demand calibration & service cost

Gain extended product life; yearly preventive maintenance including major wear and tear parts

Avoid unnecessary downtime and reduce unexpected breakdowns by keeping your device serviced and calibrated

Always latest software version and technical support included



Want to know more? [Click here](#)



References

Since 2018 **over 200 Sparklike Laser™ devices** are sold globally

TECHNOFORM

Technoform is a family company with over 14 production sites worldwide. As a manufacturer of plastic profiles, they have a global presence with more than 1,600 employees and 45 factories.

Technoform offers durable thermally optimized solutions for the glass edge bond in insulating glass, such as hybrid spacers made of plastic and stainless steel for the warm edge. They offer added value in terms of sustainability, quality and durability.

“One of our services includes non-invasive measurements of IGUs with the Sparklike Laser Portable™, in order to support the customers in quality assurance and product development.”

Sebastian Plettenberg
Team Manager

[Click here to read more](#)

The word "TECHNOFORM" is written in a bold, blue, sans-serif font and is enclosed within a light blue rectangular box with a thin white border. The background of the entire right side of the image is a low-angle photograph of several modern skyscrapers with glass facades, reaching towards a clear blue sky.

TECHNOFORM

SKAALA

Window Manufacturer SKAALA was founded in 1956 and is one of the most known window and door brands in Finland.

SKAALA has been a pioneer by measuring their insulating glass units (IGUs) together with Sparklike since 2004. In 2023, SKAALA purchased Laser Portable 2.1 to be able to measure triple glazed IGUs with coatings.

" We can measure more glass faster. It [Laser Portable 2.1] of course make measuring more diverse regarding what types of glasses can be measured. Now we can measure coated and laminated glasses. Those types of glasses are what the modern customer wants, and the demand has grown and the supply too."

Jussi Valli

Production Supervisor, SKAALA

[Click here to read why SKAALA has measured insulating gas around 20 years](#)

[Read what SKAALA thinks about the trends in the industry](#)



CASE: ON-SITE COMMISSIONING OF IG GAS ANALYSIS IN COOPERATION WITH LASIFAKTA

WELL-KNOWN BUILDING

One of the European capitals commissioned Lasifakta to conduct an on-site quality control measurement with Laser Portable to one of the buildings they own.

Their main goal was to construct a high-quality building, and therefore they wanted to make sure the implementation had happened accordingly. In particular, in terms of building's stability, safety and soundproofing. The contractor was an international company that builds residential and office buildings as well as infrastructures, and acts as a project developer for different stakeholders.

[Click here to read more](#)

INTERNATIONAL AIRPORT

The location of the on-site commissioning with Laser Portable was an international airport in Europe to check insulating glass gas concentration, and therefore building's energy efficiency.

The measurement was done to randomly selected units, including both, double and triple glazed IGU's. When analysing customised double glazed IGU's, the gas fill levels did not always fulfil the industry requirements, since the average gas fill concentration varied between 1% and 82%

[Click here to read more](#)

"These commissioning cases are a clear indication of the need as well as the growing interest towards on-site IG gas fill percentage measurement. The contractors were happy to notice that it is now possible to analyse IGU's gas concentration reliably, repeatable and most importantly – also on-site. All in all, I hope that with the help of these on-site measurements, we will soon be able to witness a significant improvement in production quality control."

Mr. Sutela, Lasifakta Oy

Sparklike Laser Portable™ material:

Sparklike Laser Portable™ Video - [Watch here](#)

Sparklike Laser Portable™ Guidance Page - [Learn more](#)

Sparklike Website - [Click here](#)



For more information

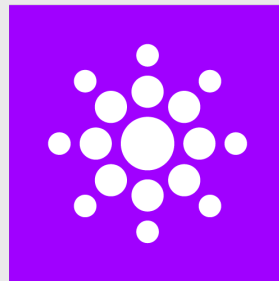
CONTACT YOUR LOCAL DISTRIBUTOR:

www.sparklike.com/en/contact-us

CONTACT US:

sales@sparklike.com

Sparklike Oy
Helsinki, Finland



Sparklike