



# 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

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- 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

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- Determines 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

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<b>Thickness measurement accuracy</b>	± 50 µm (*)
<b>Repeatability of the gas measurements</b>	± 2 % (**)
<b>Measurement time</b>	18–21 s/DGU and 22–28 s/TGU
<b>Maximum IG thickness</b>	51 mm from surface 1 to 3/DGU from 1 to 5/TGU
<b>Glass thickness range</b>	2–23 mm
<b>Spacer bar range/ cavity dimension</b>	4–40 mm
<b>Max. input power</b>	250 W
<b>Connections</b>	RJ-45, 2x USB 2.0
<b>Display</b>	12" Touch Screen
<b>Data logging capability</b>	Virtually unlimited
<b>Battery</b>	Battery 2 x LiFePO <sub>4</sub> , 7,2 Ah, 12,8 V
<b>Weight</b>	27 kg
<b>Dimensions</b>	
<b>Trolley case</b>	410 x 330 x 560 mm (without the wheels)
<b>Measuring head</b>	350 x 190 x 330 mm
<b>Device in operation</b>	440 x 390 x 1200 mm (with the wheels)

\* 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

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## 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

## 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

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# TECHNOFORM



# 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.

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## 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%

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*"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:

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

Sparklike Laser Portable™ Manual - Download

Sparklike Laser Portable™ Setup guide - Download

Sparklike website - [Click here](#)



# For more information

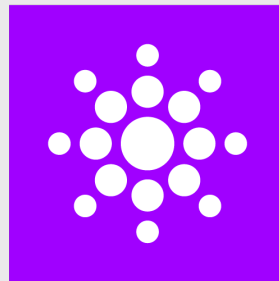
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