



Electronic design

for a smarter world

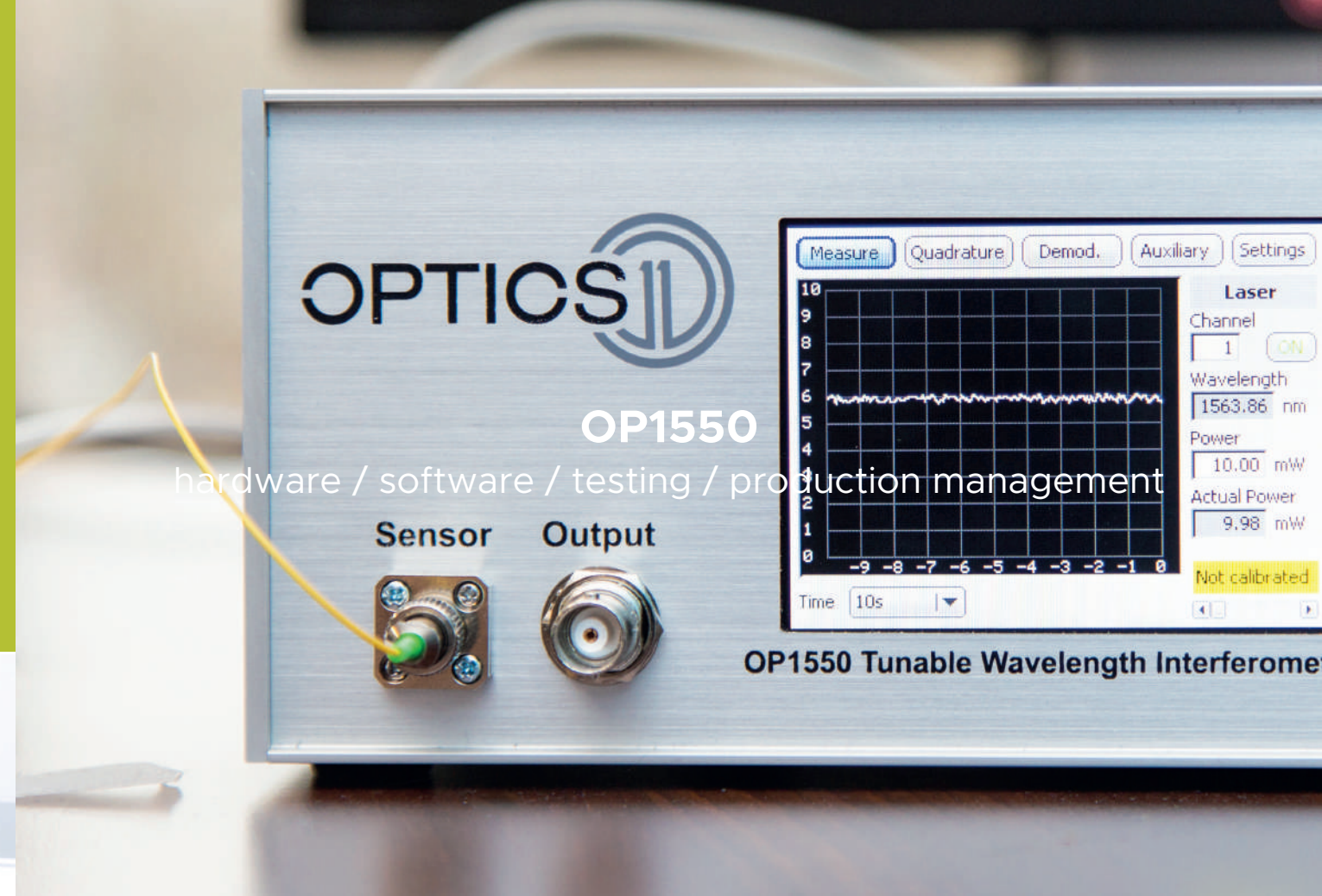
CASE STUDIES FOR INDUSTRY



Technology solutions for Industry 4.0



Improving
nanotechnology
with ultra-analytics



A new level of data
monitoring for any
industry demand



Nanotechnologies rely upon the most incredible level of detail. Only Grinn could reach those exacting standards to enhance and augment the interferometers used in our client's laboratories. We developed an industry-leading device around the client's

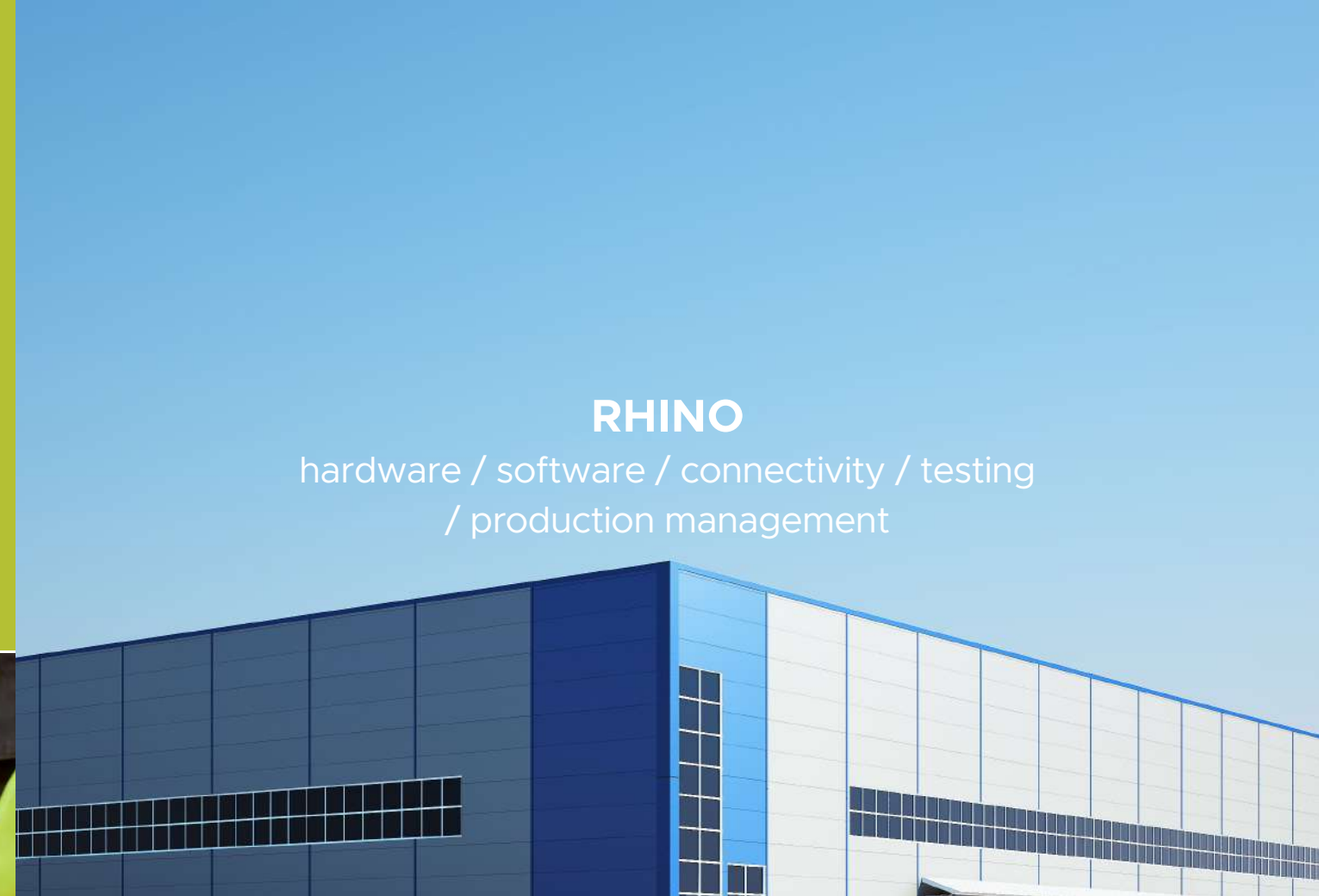
sensor tool, providing PCB, visualization software and device firmware.

www.optics11.com





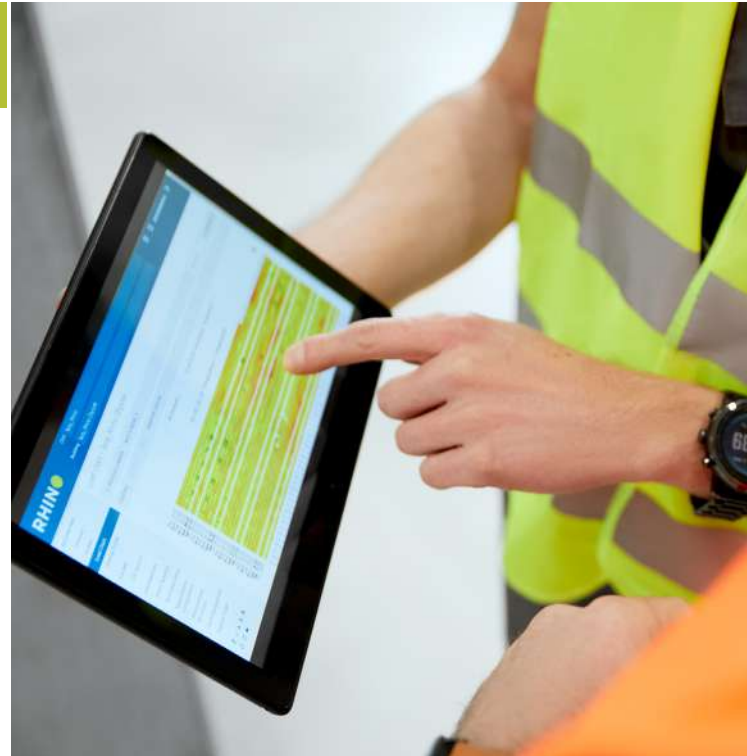
**Clever
benchmarking
helps understand
spaces as assets**



RHINO

hardware / software / connectivity / testing
/ production management

Actionable insight
creates sustainable,
cost-effective buildings



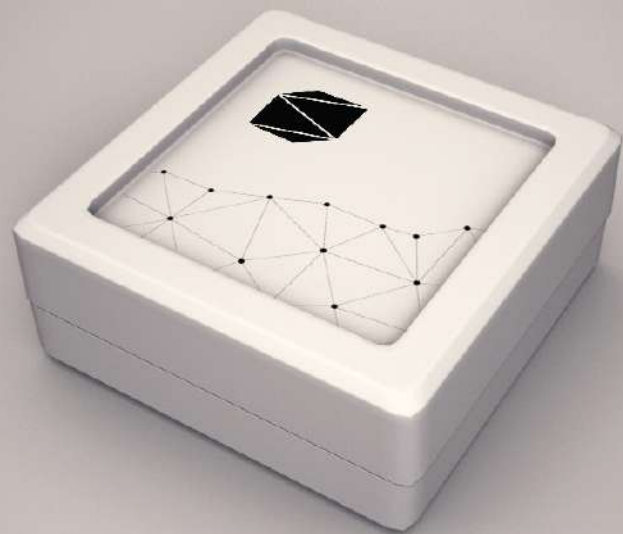
Grinn's own building management system—allowing centralized management of multiple premises—combines climate control with remote monitoring. We prove that it is possible to reduce energy consumption and increase productivity, while ensuring safety.

Grinn delivers to industries like no other solution.

www.rhino.energy



RHINO



It's not just
productivity we
measure for better
industrial spaces

Real-time monitoring
and analysis of the very
air that you breathe



GRINN AQM SENSOR

hardware / software / connectivity / testing
/ production management



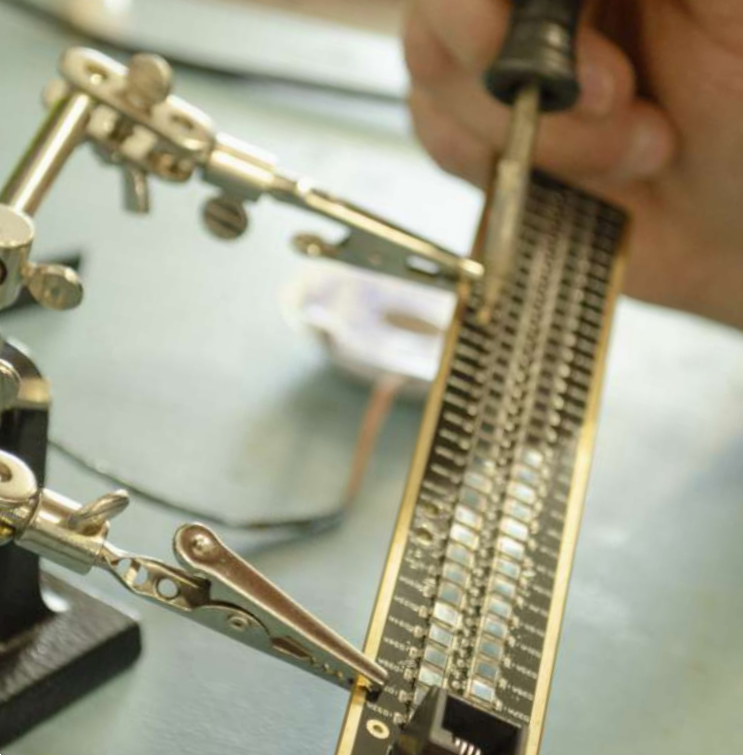
Our AQM Sensor system measures the air temperature, humidity, atmospheric pressure, and level of suspended particulate matter (PM2.5 and PM10, VOC) and CO₂. Smart sensors monitor the air quality and warn of dangerous pollution levels. Driven by legal

regulations, designed for better working environments.

www.grinn-global.com



 **GRINN**



**Rhino finds
ways to cut
costs in places
you never consider**



RHINO RDM

hardware / software / connectivity / testing
/ production management

Structural load
monitoring for a safer
workplace with less
maintenance



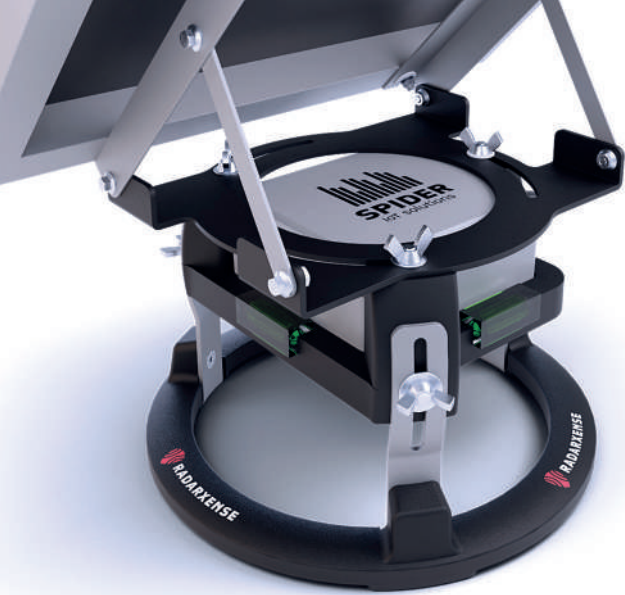
Rhino does not just work inside your industrial space, it can measure any parameter that can cost your business time and money. Load on your roof structure from things like snow, as well as leaks that emerge over time, pose a safety threat and come at a high price.

With constant monitoring and electronic safety alerts, Rhino takes the load off your mind.

www.rhino.energy



RHINO



**Agricultural
inventory
management
and stock control
slash costs**

Radar IoT technology
improves stock control
and livestock health



SILO SPIDER
software / hardware

Silo Spider is a simple concept that has become a revolutionary IoT solution. Mounted on agricultural silos, it measures levels of feed to help farmers order to demand and free up cash. Designed for purpose and durability; a smart device with software

and hardware that can withstand even the harshest conditions.

www.spider-iot.net





**Advanced
module technology
for production
cost optimization**



TRAX ELEKTRONIK

hardware / software / testing / production management

chiliSOM cuts the
product implementation
process down to size



Grinn products cross industries with the same focus on technology. When Trax Elektronik - designer of advanced and state of the art traffic management systems challenged us with developing variable message signs to inform drivers of traffic conditions, warn of

threats and suggest detours, our chiliSOM, low-power module didn't just become part of the solution, it became an industry-leading technology.

www.traxelektronik.pl





**Connected device
networks open up
aggregate savings
opportunities**

A compact device
to optimize the efficiency
of pole or cabinet
light mountings



GATEWAY ECO-SYSTEM

hardware / software / testing
/ production management



The Gateway ECO-system is an intelligent data bridge between the cloud and individual lighting units. Data is communicated via a secure protocol, assisted by the Gateway, and sent to users. The ability to view the performance and cost of a single unit and

the network as a whole is where network technologies bring vast industrial differences.

www.seneco.dk



seneco



Electrical safety
is the start point
from which all
else follows



SONEL
hardware / software / testing / production management

Meters with an
intuitive user interface
guarantee safety and
keep business running



The digital meter is designed to measure the basic safety parameters of electrical devices, such as conductor and insulation resistance, continuity of connections, leakage, and power. Once a business knows that its devices are working safely, it can get down

to the business of providing value to customers.

www.sonel.pl 



OUR CLIENTS



OUR PARTNERS



LET'S GET STARTED

Our team of consultants, designers and engineers is ready to get started on your project. With a flair for problem-solving, a global outlook and a flexible approach, we're committed to delivering outstanding solutions fast.

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call: +48 71 716 40 99

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