GF Piping Systems

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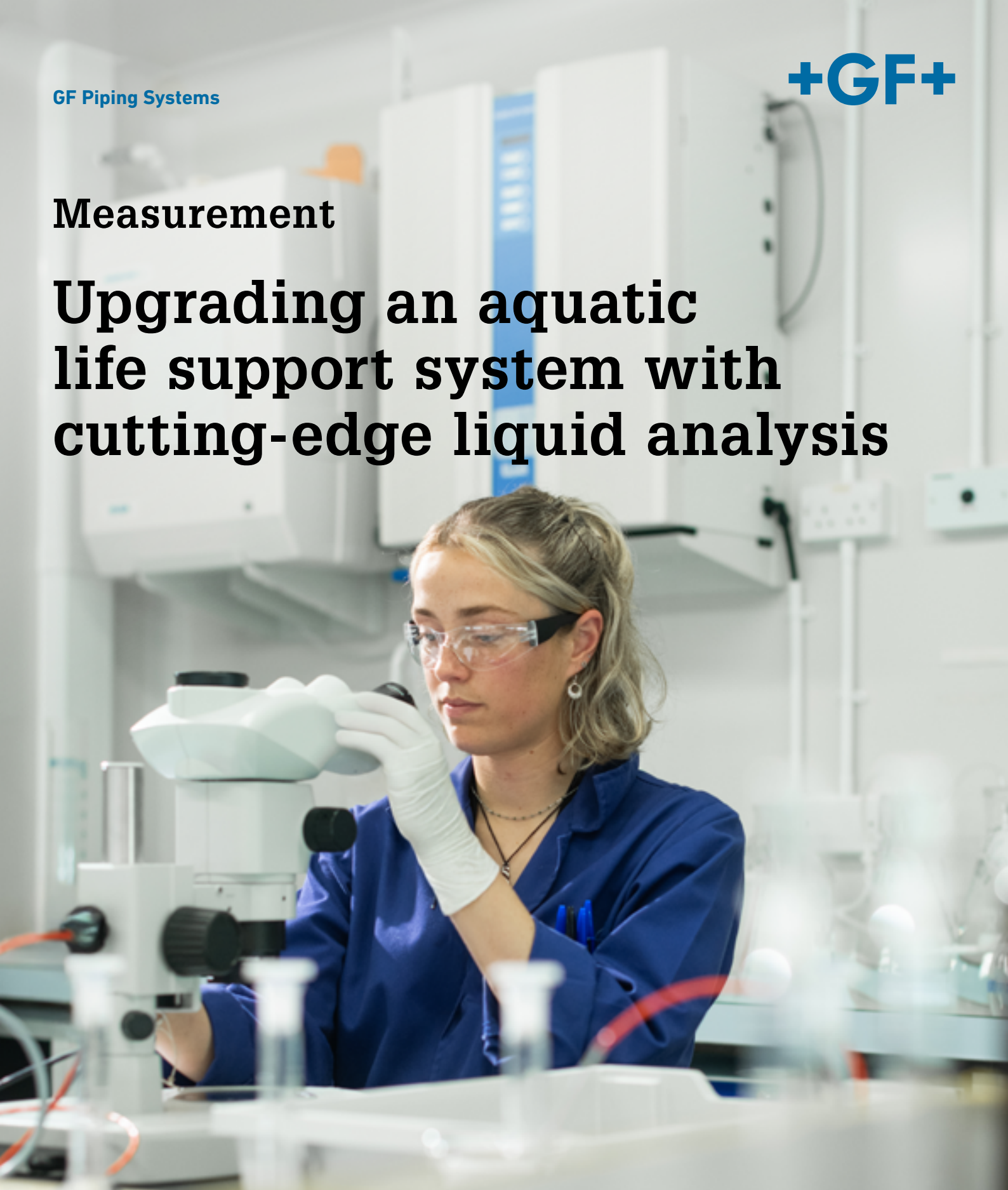
Measurement

Upgrading an aquatic life support system with cutting-edge liquid analysis



Ecotoxicology specialist Scymaris relies on analytical sensors by GF Piping Systems.

Precise and reliable measurement in a corrosive seawater environment

Scymaris, located in Brixham in Southern England, specializes in environmental risk assessments for various industries. With 2,500 m^2 of lab space, the facility offers services including aquatic ecotoxicology, environmental fate studies, and analytical chemistry. To meet the high standards of clients and ensure the highest scientific quality, Scymaris requires durable, reliable, and precise liquid analysis sensors. As the automation partner of the facility for the past 20 years, GF Piping Systems provides exactly that.

Project background

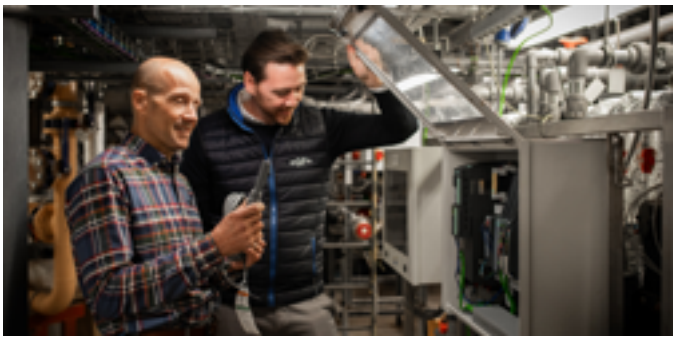
Among other industries, Scymaris offers its services to pharmaceutical companies, as pharmaceuticals can have significant environmental implications and therefore require an environmental risk assessment. Part of this process involves aquatic ecotoxicology studies using seawater. Due to the facility's proximity to the sea, it sources this water directly and stores it in two large tanks for added resilience. However, this creates a harsh and corrosive environment which puts stress on the pipes and instruments required to transport the seawater to the lab spaces.

Selected technical solution

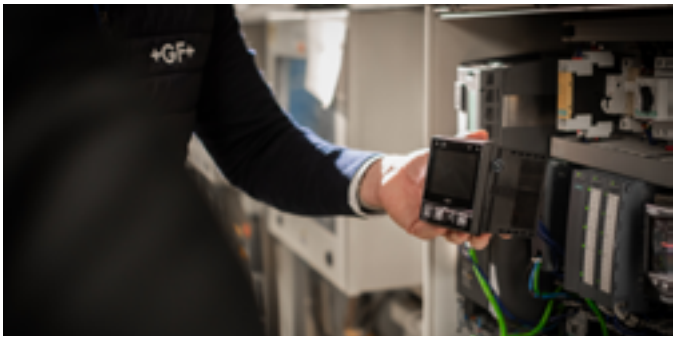
With an extensive background in process instrumentation, GF Piping Systems has been the company's long-time supplier for liquid analysis solutions capable of performing under challenging conditions. Scymaris relies on GF Piping Systems' components to measure dissolved oxygen, temperature, and pressure. In addition, the company has implemented conductivity sensors made of Hastelloy C-276 which have an expected service life four times longer than 316L stainless steel thanks to higher corrosion-resistance. As part of a scheduled equipment update, Scymaris chose to install the 9950 Six-Channel Transmitter which can accommodate up to 6 different instruments with 100% customizable in- and outputs.

Achieved improvement

When it comes to technology used for scientific studies, reliability and accuracy are of the highest importance. Components like GF Piping Systems' conductivity sensors not only feature durable materials but also undergo rigorous testing before leaving the factory. At the same time, the 9950 Six-Channel Transmitter reduces the potential points of failure and simplifies the process of monitoring critical parameters. The durable, reliable, and precise system helps studies to run smoothly and fulfill the stringent guidelines of clients and the government.



Among other measurement solutions, GF Piping Systems has provided durable Hastelloy-C pH-sensors for studies with corrosive seawater.



The 9950 Six-Channel Transmitter reduces points of failure and simplifies the process of monitoring critical parameters.

Customer benefits

- **Durability:** Thanks to a wide range of proven materials, liquid analysis components by GF Piping Systems are designed for a long-lasting operation – even in challenging conditions.
- **Precision:** Transmitters by GF Piping Systems allow operators to easily monitor and control critical parameters.
- **Customization:** Comprehensive measurement solutions ensure full compatibility and seamless integration.

Where next?

Watch Video on YouTube

Discover our solutions for Process Automation

Our Liquid Analysis Portfolio

Visit our webpage to get in touch with your local specialist:
www.gfps.com/our-locations

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