Using optical technology (DOAS), Consilium OPSIS M800 is a unique solution for emission monitoring. Not only does it measure with the speed of light, it also never has contact with the different gases. By pairing these features together with fiber optic, instead of heated sampling pipes, the M800 system is highly reliable and cost effective, with proven performance and high uptime.

With just one analyser, the continuous emission monitoring system (CEMS) measures all relevant gases, such as NO, NO₂, SO₂, CO₂, CO, NH₃, CH₄. Furthermore, it is easily updated by a simple software upgrade to measure additional gases. Thanks to the cross-stack method, the system is perfect for the harsh environments, as it doesn’t require any contact with the gas. No sampling is required, simplifying operation and maintenance.

Consilium Opsis M800 measures all relevant gases with an optical, non-contact method, monitoring all scrubber systems on a ship with just one analyser.
MONITORING SYSTEMS FOR A BETTER PLACE

The global environmental impact from ship emissions is significant and the International Maritime Organization (IMO) is enforcing new regulations in order to reduce the emissions.

Ships passing through Environmental Control Areas (ECA) must use low sulfur fuel (0.1% S) or install scrubbers to reduce the SO\(_2\) emissions. Ship owners using scrubbers must monitor both SO\(_2\) and CO\(_2\) in the scrubber exhaust. Our CEMS monitors emissions with the speed of light, all while giving you a long-lasting and trustworthy product.

LOW MAINTENANCE, LOW LIFETIME COST

Thanks to the combination of our non-sampling method and the optical monitoring technique, our CEMS system has many efficient features. Easy installation, minimal maintenance, and a self-operating system allows our CEMS to be highly reliable, saving you both time and money.

TROUBLE FREE MONITORING SYSTEM

Our monitoring systems have been installed all over the world, many of them with more than 15 years trouble free operation. The system has proven to be the most reliable and cost efficient solution possible for continuous emission monitoring.

OPTICAL MEASURING AT THE SPEED OF LIGHT

As the OPSIS M800 is an optical measuring system, no pumps, filters, or heated lines are required. A light beam is sent across the stack and the captured light is sent to an analyser through an optical fibre cable.

The response time is very fast, enabling accurate monitoring of each measuring point within seconds. This exceptional response time meets and exceeds the requirements stipulated.
FOR ALL THOSE MOMENTS
WHEN SAFETY MATTERS

Consilium is a producer of safety technologies for the marine, oil and gas, transport and building sectors. Our commitment goes beyond the products:

We protect the lives of mothers and fathers, sisters and brothers, colleagues and friends. With representation in more than 55 countries in all time zones, we are always close to you.