

# New product for monitoring emissions

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The Gas 222.15-MA model by Bühler Technologies is a new, innovative product to improve emissions monitoring in shipping.

In the interest of protecting the environment, monitoring emissions in shipping is gaining importance. Here the initial focus is on large-scale emitters such as cruise ships, container ships and tankers.

Depending on the fuel quality, in addition to CO<sub>2</sub> and H<sub>2</sub>O, these ships emit a mix of various pollutants. Similar to large combustion plants, gas analysis in maritime applications also serves monitoring pollutant emissions as well as controlling the combustion process.

Bühler Technologies is one of the worldwide leading suppliers of gas analysis components and systems. However, maritime applications pose additional requirements with respect to equipment and components compared to stationary applications. For example, although the hulls are certainly designed for the specific requirements with respect to strength, much like the element they travel, they are never at rest. Due to the water movement and particularly the running machines, the entire ship is always more or less vibrating. Sometimes even at the multiple of gravitational acceleration. There's a good reason why the marine and off-shore sector require certified products.

Another requirement is based on the moisture in the ambient air. In addition to other extractive gas analysis components, Bühler Technologies has now developed a probe approved for this application. The 15-MA version of the GAS 222 series meets the broader requirements yet still offers the well-known benefits such as toolless filter change and very compact size. With the newly designed insulation and the convenient terminal box, the protection class was raised to IP 66.