**ENOTEC - Leading gas sensing solutions since 1980**

In this issue of Sustainability Today, we are proud to announce that ENOTEC GmbH is our Gas Analysis Solution Company of the Month.

ENOTEC GmbH is a leading player in the process gas analysis technology, focussed primarily on the development, production and sale of In-Situ gas analysers and interconnected equipment for process control and emission monitoring applications. The analysers are perfectly suited for applications that involve incineration and combustion processes.

Established 1980 byFred Gumprecht in Marienheide near Cologne, Germany, ENOTEC expanded exponentially in product development and production. With subsidiaries in UK, USA and Belarus, the company continues to offer global expertise, with localised, regional support.

Among many others, the target industries include coal, gas and oil-fired power plants, refineries, chemical and petrochemical plants, cement and steel plants, refuse, biomass and sludge incinerators, paper/pulp manufactories, waste heat boilers, drying processes and marine engines. The precision-driven ENOTEC products are designed to operate efficiently in high flue gas temperatures and high dust load environments, as well as corrosive or reducing atmospheres.

ENOTEC’s compliancy to the quality management system ISO 9001 ensures that the gas-sensing analysers provide reliable, accurate values. Furthermore, a SIL 2 (1oo1 selection) functional safety certificate is available for the O2 sensor. On request and under certain conditions, a QAL1 certification can be issued for O2 monitoring as part of a CEMS.

We caught up with Angie Niño, Digital Marketing Manager, to find out more about ENOTEC’s gas analysers, “The OXITEC® 5000 can measure the excess O2 directly after a combustion process to permanently control the air-fuel ratio. ENOTEC develops and produces their own zirconia based O2 sensors, which are particularly robust, remain gas-tight due to a special soldering technique and have an average life expectancy of 7 to 8 years in typical combustion-related applications.”

Moreover, ENOTEC’s range of EX-probes and electrical control units permits measurements in designated explosion areas. Besides the European ATEX certification for zones 1/2, the analysers are certified according to the international IECEx regulations, which enables the worldwide use of the ENOTEC systems.

For example, the explosion-prove COMTEC 6000 GasEx probe embodies an additional COe sensor (COe = sum of all combustible gas components such as CO. H2, CxHy, etc.). Excess O2 and COe levels can be adjusted down to a minimum, enabling optimal fuel efficiency. The precise combined In-Situ measurement allows immediate reaction to changes in the flue gas composition, which is ideal for a safe operation, especially in refineries.

Arising from the COMTEC set-up, ENOTEC has developed the SILOTEC, a system to monitor the inertisation of silos (e.g. coal storage) and early detection of smouldering fires.

Recently ENOTEC also displayed its CEMTEC rotary kiln extraction probe at the 2023 Global CemProducer Conference and Expo in Munich, Germany. Following the exhibition, trade delegates visited the refurbished Burglengenfeld Heidelberg Cement plant, to see the sophisticated state-of-the-art CEMTEC technology in action. It is designed for extreme harsh process conditions (temperatures up to 1400°C and dust loads up to 2000g/m³), having an availability of more than 95%.

ENOTEC has been a global leader of precision-driven process gas analysers for over 40 years and as Angie Niño comments, “Due to the constantly evolving market for emissions and process analysers, ENOTEC is decidedly committed to stay at the forefront of this evolution by strongly investing in research and development for future innovation.”

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