

Press Release

Voith Group

Mailing address:
Voith GmbH & Co. KGaA
St. Pöltener Straße 43
89522 Heidenheim, Germany
Tel. +49 7321 37 0
www.voith.com

New fluid temperature sensor OnSens.SmarTemp from Voith keeps productivity flowing in challenging conditions.

- Innovative energy self-sufficient sensor for constant-fill fluid couplings.
- Features smart functions including real-time monitoring and early detection of critical situations.
- Includes latest-generation radio transmission for added flexibility.

Heidenheim, Germany, May 19, 2026. Since constant-fill fluid couplings typically operate in demanding applications like belt conveyors, crushers and shredders, ensuring an optimum coupling fluid temperature is vital for reliability and productivity. However, the temperature of the operating medium often remains hidden, meaning the actual load on the coupling during operation goes unnoticed. As Voith Product Manager Thomas Ohr explains, this is exactly where OnSens.SmarTemp comes into play: "With this smart and retrofittable temperature measurement system, we enable operators to track the condition of their fluid couplings in real time – for new and existing coupling installations alike."

OnSens.SmarTemp continuously measures the live fluid temperatures of constant-fill fluid couplings. This real-time data provides detailed insight into operational performance, helping boost system availability and profitability. It can also be used for load control, enabling a preventive response to alerts such as overload. And since signal

transmission continues after shutdown, operations can subsequently be resumed at the earliest possible moment.

Free from cables and batteries, this temperature sensor does not need any maintenance or even an external energy supply. Its integrated Peltier elements perform 100% self-sufficient energy harvesting, requiring only a minimum temperature difference of 20°C between the surroundings and the operating fluid.

“As the name suggests, OnSens.SmarTemp is above all a smart solution,” notes Ohr. Central to this is its wireless connectivity, with 2.4-2.5 GHz radio transmission enabling a distance of up to 10 meters between the sensor and receiver. This provides extra flexibility in terms of the system layout and commissioning.

The OnSens.SmarTemp package comprises the sensor, receiver and driver, so operators can easily integrate fluid temperature monitoring into their PLC (programmable logic controller). Despite its highly innovative design and features, it is nevertheless ideal for retrofitting into existing systems and can handle ambient temperatures ranging from -40°C to +85°C.

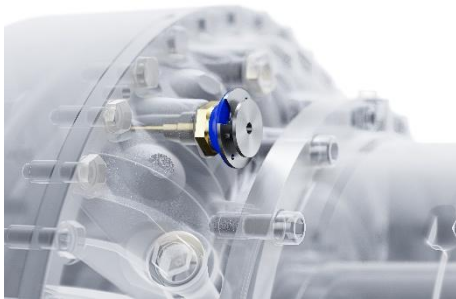
For Thomas Ohr, OnSens.SmarTemp means that “it’s never been easier to monitor fluid temperatures.” Optimized preventive maintenance lowers system costs, while the freedom afforded by radio transmission enables simpler installation and commissioning. “So operators can focus on what matters most – early detection of critical fluid temperatures and avoiding downtime.”

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport. Founded in 1867, Voith today has around 21,000 employees, sales of € 4.8 billion and locations in over 60 countries worldwide

and thus is one of the larger family-owned companies in Europe.

The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology and rail rely on the advanced technologies and digital applications of Voith.



OnSens.SmarTemp performs real-time fluid temperature monitoring of constant-fill fluid couplings



Robust package for easy installation and integration

Contact

Katja Stutzmiller

Manager Solutions Portfolio Communications

Tel. +49 7321 37-9294

Katja.Stutzmiller@voith.com

LinkedIn

www.linkedin.com/company/voithgroup

www.linkedin.com/company/voith-hydro
www.linkedin.com/company/voith-paper
www.linkedin.com/company/voith-turbo

YouTube

www.youtube.com/voithgroup

Facebook

www.facebook.com/VoithGlobal

Instagram

www.instagram.com/voithgroup