



Media Release

Schaffhausen

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GF introduces the Type 4170 Sensor for inline turbidity monitoring

The Type 4170 Sensor is designed for reliable turbidity monitoring in process applications. Together with the Type 8640 Transmitter, it delivers an advanced solution for accurate measurement, reduced maintenance, and intuitive operation.

Turbidity is a key performance indicator in both industrial and municipal water treatment, critical for ensuring regulatory compliance, protecting process equipment, and verifying water quality. While online (bypass) measurement systems have historically met these needs, they often involve sampling delays, higher maintenance, and system complexity. With the inline Type 4170 Sensor, GF offers a modern solution designed for real-time measurement, reduced maintenance, and seamless integration into diverse water treatment systems.

The Type 4170 Sensor features a slanted optical head with a stable NIR (near-infrared) light source and a PPSU light absorber. For operators, this means reduced cleaning effort, consistently accurate measurements regardless of seasonal color changes in the medium, and a flexible installation even in tight spaces. At the same time, the inline design minimizes bubble formation and enables real-time measurement without the sampling delays or sediment buildup often associated with bypass systems. With fewer maintenance parts - no flow cells, lamps, or complex tubing – it simplifies upkeep and lowers overall ownership costs. Even under challenging conditions, GF's Type 4170 Sensor delivers stable and precise measurements across the entire range, from ultra-clear to heavily turbid water. Its advanced multi-point factory calibration ensures high performance at both very low and very high turbidity levels, making it one of the most accurate sensors in its class.

Luca Barz, Global Product Manager at GF, comments on the launch: “The Type 4170 inline turbidity sensor is ideally suited for water treatment and process control thanks to a compact and rugged design, proven optical performance, and compliance with ISO 7027. Combined with the 8640 Transmitter, we provide water treatment professionals with a cost-effective, low-maintenance, and high-accuracy measurement system - ready to meet today's challenges and tomorrow's regulatory standards.”

The Type 8640 Transmitter is designed to work seamlessly with the Type 4170 Sensor to create a complete monitoring solution. Its color touchscreen offers an intuitive real-time display and easy configuration, while optional field-upgradable modules for Modbus RTU, Profibus DP, and ProfiNet IO communication ensure integration flexibility.

[Find out more about GF's turbidity solutions here.](#)

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Corporate Profile

GF, with a rich history in industrial innovation since 1802, is actively reshaping itself to become the global leader in Flow Solutions for Industry, Infrastructure and Buildings. GF delivers Excellence in Flow by providing essential products and solutions that enable the safe and sustainable transport of fluids worldwide. As part of its strategic transformation, GF divested GF Machining Solutions on 30 June 2025 and has signed an agreement to divest its GF Casting Solutions division. Headquartered in Switzerland, GF employs about 15'700 professionals and is present in 46 countries. In 2024, GF generated sales of CHF 4'776 million. GF is listed on the SIX Swiss Exchange.
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