

The solution for all aqueous, even high-purity media

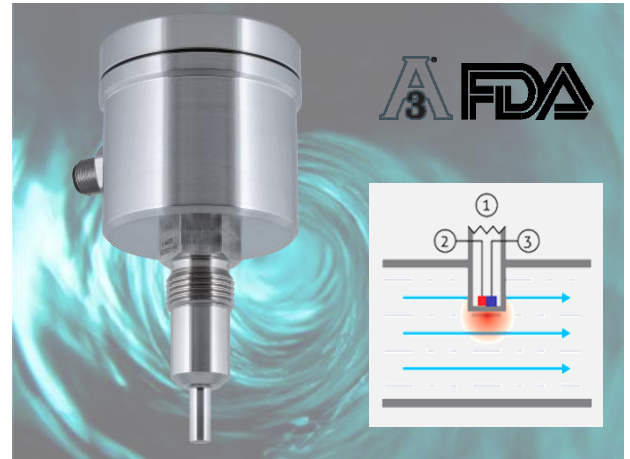
FTS - Reliable flow control for all media

Flow switches are used **in almost all processes** to monitor the **technical safety of the plant** and the **correct operation of the processes**. Possible malfunctions of a pump, a closed valve or a misdirected medium are **detected and reported**.

Keep your fluids flowing smoothly with FTS calorimetric flow switch

The calorimetric flow switch uses a unique pulsed measurement method that heats the medium in short periods and detects flow velocity by measuring the temperature change. As the medium flows through the pipe, it carries heat with it, which is detected by a temperature sensor. The flow switch then uses this information to calculate the velocity of the medium and trigger an alarm or shut off the flow if necessary. This reliable and precise measurement method makes the flow switch an ideal solution for monitoring all types of aqueous media, including high-purity fluids.

- **Ideal for all aqueous products:** Including demineralized and highly filtered fluids such as soft drinks, filtered beer, and demineralized water. It is also ideal for use in pressure lines and other applications that require reliable flow monitoring
- **Process temperature up to 100 °C (212°F):** FTS is perfectly suited for all usual processes and media
- **Fast:** Due to the very slim sensor tip and the position of the heating element and Pt100 sensor directly at the fluid, the FTS has an extremely short response time for a calorimetric sensor
- **Insensitive to temperature shocks:** temperature changes due to e.g. cold product, hot water, CIP solutions have no influence on the measurement
- **Versatile:** Hygienic calorimetric flow switches are highly versatile and can be used to monitor and control the flow of liquids in a wide range of applications, such as pump systems, valves, filters, agitators, cooling circuits, CIP return flow, and more. Additionally, they can be used to quantify waste loss, ensuring efficient and cost-effective processes



Technical data FTS at a glance

- **For all aqueous media** (water content $\geq 50\%$)
- **Measuring range 0,1...3 m/s (.3 to 9.8 fps)**
- **Robust stainless-steel design**, protection class IP69K
- **Long-life Technology** for process temp. up to 100 °C (212°F), integrated safety switch-off
- With **type FTS** the **switching output** is adjustable in % of the flow rate.
- **CIP / SIP** up to 140 °C (284°F) / max. 60 min

Order code CLEANadapt G1/2" process connection

FTS-141 Calorimetric Flow Sensor with switch output, CLEANadapt G1/2" process connection

Cap

- X** (Plastic without window)
- P** (Plastic with control window)
- M** (Metal without control window)
- W** (Metal with control window)

FTS-141 - X

Order code direct process connection in one piece design

FTS-741 Calorimetric Flow Sensor with switch output, direct process connection

Process connection

- C10** (Tri-Clamp 1½")
- C20** (Tri-Clamp 2")

Cap

- X** (Plastic without window)
- P** (Plastic with control window)
- M** (Metal without control window)
- W** (Metal with control window)

Surface finish

- XX** (0.8 microns / 0.8 µm)

FTS-741 - C20 X XX

Accessories

Cert - 2.2 - FTS factory certificate 2.2 acc. to EN10204 (product-contacting surface only)

5 conductor molded cord set

- 42117H0025** 25' length
- 42117H0050** 50' length
- 42117H0100** 100' length