

# OnSens. SmarTemp

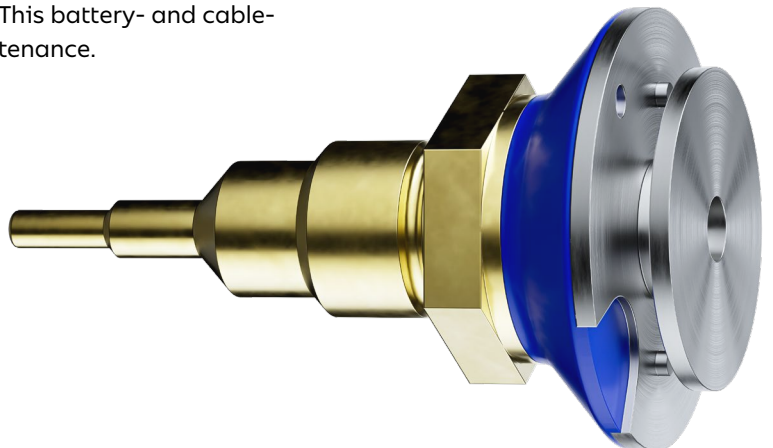
Keep your productivity flowing

## Main function of the product:

High system availability and productivity are key to successful operations. Continuous monitoring of system processes helps maximize uptime. OnSens.SmarTemp from Voith is a smart temperature sensor for constant-fill fluid couplings. Real-time monitoring of the fluid temperature inside the coupling enables early detection of critical situations. This battery- and cable-free sensor delivers greater reliability and easier maintenance.

## Your benefits:

- > Easy integration into existing setup
- > Real-time monitoring of fluid temperature
- > Improved use of thermal reserves
- > Signal transmission even after shutdown

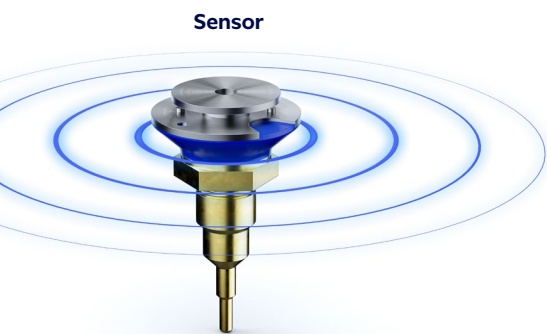


# Overview of components

With an ambient temperature range of -40 to +85°C, OnSens.SmarTemp is equipped to handle challenging conditions. Self-sufficient energy harvesting is performed with the Peltier elements: all they require is a minimum temperature difference of 20°C between the surroundings and the operating fluid.

The OnSens.SmarTemp sensor is always bundled with a receiver, a 9-30 V DC power cable, a LAN cable for connection to the Programmable Logic Controller (PLC), and a dedicated driver for installation on your systems. Latest-generation radio transmission enables a distance of up to 10 m between the sensor and the receiver.

## Voith scope of supply



Wireless signal up to 10 m



Receiver

LAN cable

Power cable (9-30 V DC)



Driver

## Customer



PLC

## Technical data (sensor)

### Sensor

Tip temperature (operating fluid)	Resolution	0.1°C
	Accuracy	± 2°C
	Measuring range	-40°C to +200°C

### Radio transmission

Transmitting frequency	2.4 GHz to 2.5 GHz
Radio technology	Bluetooth Low Energy 5.2
Output power	0 dBm
Max. range (LoS)	up to 10 m

### Power supply

Energy harvesting	Self-sufficient Required difference between ambient and operating fluid temperature: min. 20°C
-------------------	---------------------------------------------------------------------------------------------------------

### Environment

EN 60529 protection class	IP65
Ambient temperature	-40°C to +85°C
Storage	0°C to +80°C

### Mechanical

Weight	M18 version: approx. 104 g M24 version: approx. 148 g
Dimensions	Suitable for mounting in Voith couplings size 366 and larger

### Declaration of conformity



Conforms to the applicable EU directives:  
2014/30/EU (EMC), 2014/53/EU (RED)

Compliant with FCC regulations:  
FCC Part 15

