

# SOMFLOW

## Flow velocity sensor



The exact and real time knowledge of water discharge is of central importance for the operation of waste water treatment facilities, cost allocation in sewage networks and management of communal and industrial water resources.

The SOMFLOW continuously measures the water or effluent velocity through ducts, pipes and open canals in sewer networks, water treatment plants and industrial facilities.

### Versions

Art	Version
21676	SOMFLOW velocity sensor

### Scope of delivery

Qty	Name
1	SOMFLOW ultrasonic Doppler velocity sensor

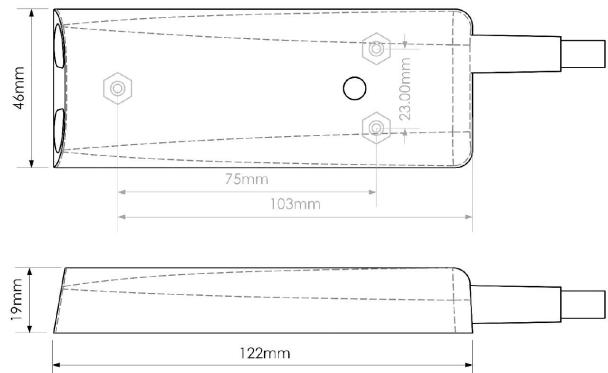
### Accessories

Art	Accessories

### Specifications

#### SOMFLOW ultrasonic Doppler sensor

Immersion	up to 1 bar
Principle	Doppler sensor using twin 1 MHz transducers
Operating temperature	-20 to +60 °C (fluid non-freezing)
Storage temperature	-20 to +70 °C
Size L x B x H	122 x 46 x 19 mm
Weight	1.1 kg (incl. 10-m cable)
Material	PVDF, polyurethane, 316 Stainless steel



#### SOMFLOW ultrasonic Doppler sensor

Measurement range	Bi-directional 0.01 to 5 m/s (0.03 to 16.4 ft/s)
Accuracy	± 2 % of reading if $V \geq 0.5\text{m/s}$ (1.64 ft/s) ± 0.01 m/s (± 0.03 ft/s) if $V < 0.5\text{m/s}$ (1.64 ft/s)
Resolution	1 mm/s (0.003ft/s)
Minimum fluid level	5 mm (0.59 in) to 20mm (0.79in) above base of sensor, provided transducers fully wetted