

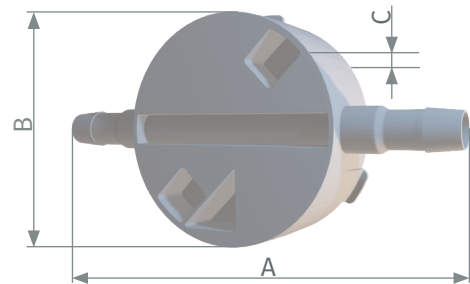
# BioProTT™ FlowSU Sensor

## SINGLE-USE, IN-LINE SENSOR



### FEATURES

- pressure resistant up to 5.1 bar (74 psi)
- integrated bubble detection
- all five sizes compatible with the same evaluation device
- standardized part - no calibration required
- improved accuracy with On-Site Adjustment



### TECHNICAL SPECIFICATIONS

Sensor Sizes (i.e. inner diameter)	Dimensions (A x B x C) and Weight (without packaging)
1/4"	135 x 90 x 33 mm; ±2 mm; 85 g
3/8"	137 x 90 x 34 mm ±2 mm; 89 g
1/2"	172 x 90 x 37 mm; ±2 mm; 100 g
3/4"	180 x 90 x 45 mm; ±2 mm; 127 g
1"	190 x 90 x 49 mm; ±2 mm; 147 g
<b>Housing Material</b>	polycarbonate (PC; Lexan Grade HPH4404)
<b>Degree of Pollution</b>	2
<b>Classification of Wetted Parts</b>	USP Class VI, free of animal derived components and TSE/BSE
<b>Packaging and Cleanroom Conditions</b>	packaged under ISO Class 7 cleanroom conditions compliant to USP 85, 87, 88, 661, 788, and DIN 11737-1: 2021
<b>Connection to Evaluation Device</b>	male USB-C connector
<b>Mounting</b>	toolless, innovative locking mechanism
<b>Compatibility</b>	multi-use BioProTT™ FlowSU System
<b>IP Class</b>	IP 20 in unmated and/or dismounted condition IP 65 (=UL 50E Type 2) in mated and/or mounted condition
<b>Expected Shelf Life</b>	24 months after gamma sterilization
<b>Duration of Use</b>	60 days
<b>Medium Temperature</b>	4 °C to 60 °C

## SENSOR SIZES AND STANDARD MEASUREMENT RANGE

Sensor Size	Qmin [l/min]	Qmid [l/min]	Qmax [l/min]	max. burst pressure [bar]
1/4"	0.1	1	8	5.1
3/8"	0.1	1.25	15	5.1
1/2"	0.1	1.5	20	5.1
3/4"	2.5	4	50	5.1
1"	2.5	6	80	5.1

## ACCURACY

Sensor Size	max. deviation at flow rates between Qmin and Qmid Improvement possible with On-Site Adjustment	accuracy between Qmid and Qmax Improvement possible with On-Site Adjustment
1/4"	± 20 ml/min	± 2 %
3/8"	± 25 ml/min	± 2 %
1/2"	± 30 ml/min	± 2 %
3/4"	± 80 ml/min	± 2 %
1"	± 120 ml/min	± 2 %

The specified accuracies were determined under the following conditions:

- medium: distilled water with sodium chloride (salinity between 0.8 ppt and 1.4 ppt) and fully developed flow profile
- straight inlet section: 15 x inner diameter of sensor
- The accuracy is specified within the defined flow measurement range. The flow measurement range is limited by the Qmin and the Qmax.
- The installation position of the BioProTT™ FlowSU System in regard to the positioning of pumps and valves within the circuit impacts the measurement and must be taken into account when it comes to the accuracy of the BioProTT™ FlowSU System

## AMBIENT CONDITIONS DURING TRANSPORT, STORAGE, AND OPERATION

### Transport and Storage

Atmospheric Pressure	70 kPa to 106 kPa
Temperature Range Transport	-20 °C to 55 °C (-4 °F to 131 °F)
Temperature Range Storage	-20 °C to 45 °C (-4 °F to 113 °F)
Relative Humidity	10 % to 96 % (non-condensing)

### Operation

Atmospheric Pressure	70 kPa to 106 kPa
Operating Altitude	up to 2000 m (6600 feet)
Temperature Range	10 °C to 40 °C (50 °F to 104 °F)
Relative Humidity	10 % to 96 % (non-condensing)