# BioProTT™ FlowSU Sensor

## SINGLE-USE, IN-LINE SENSOR



### **FEATURES**

- · Single-use, in-line
- Available in several sizes
- All sizes compatible with the same evaluation device
- Gamma-sterilizable once with up to 50 kGy



### TECHNICAL SPECIFICATIONS

**Dimensions (H x W x D) and Weight**90 x 175 x 36.5 mm; ±2 mm; 75 g **Available Sizes (i.e. inner diameter)**1/4" (will be available in the future)

3/8" (will be available in the future)

1/2"

3/4" (will be available in the future)
1" (will be available in the future)

Housing Material Lexan Grade HPH4404

Degree of Pollution

Classification of Wetted Parts USP Class VI, free of animal derived components and TSE/BSE

**Packaging and Cleanroom Conditions** packaged under ISO CLass 7 cleanroom conditions compliant to

USP 85, 87, 88, 661, 788, and DIN 11737-1: 2021

Connection to Evaluation Device male USB-C connector

Mountingtoolless, innovative locking mechanismCompatibilitymulti-use BioProTT™ FlowSU System

IP Class IP 20 in unmated and/or dismounted condition

IP 65 (=UL 50E Type 2) in mated and/or mounted condition

**Expected Shelf Life** 24 months after gamma sterilization

**Duration of Use** 60 days

**Medium Temperature** 4° C to 60° C

### SENSOR SIZES AND MEASUREMENT RANGE

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



Sensor Size	maximum deviation at flow rates below Qmin	accuracy between Qmin and Qmax
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 %

Please note: 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 diamter 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**

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

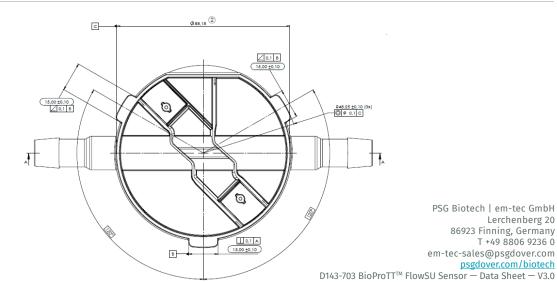
Atmospheric Pressure 70 kPa to 106 kPa

Operating Altitude up to 2000 m (6600 feet)

10° C to 40° C (50° F to 104° F) Temperature Range

**Relative Humidity** 10 % to 96 % (non-condensing)

### TECHNICAL DRAWING



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<sup>\*</sup> Will be available soon. \*\* In combination with appropriate tubes.