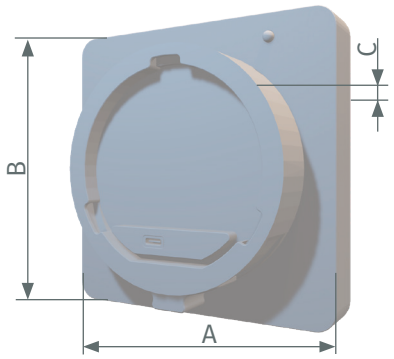
BioProTT™ FlowSU System

MULTI-USE FLOW METER

FEATURES

- one multi-use system for all BioProTT™ FlowSU Sensor sizes
- Power over Ethernet (PoE)
- easy sensor exchange through innovative locking mechanism
- On-Site Adjustment feature
- no separate transmitter required inside the process cabinet



TECHNICAL SPECIFICATIONS

Dimensions (A x B x C) and Weight	135 x 135 x 45 mm ± 5 mm; 1500 g
Housing Material	stainless steel (316L; material no. 1.4404 (X2CrNiMo17-12- 2))
Surface Roughness	Rz = 10
Powering and Data Transfer to Host System	PoE (IEEE 802.3af; voltage range 36 V - 57 V)
Interface	Modbus TCP (RJ-45 connector)
Connection to Sensor	female USB-C connector
Mounting	with four screws of the type M5 x 12
Compatibility	single-use BioProTT™ FlowSU Sensor
IP Class	IP 20 in unmated and/or dismounted condition IP 65 (=UL 50E Type 2) in mated and/or mounted condition
Expected Product Life	5 years
Cleaning and Disinfection	using alcohol-based surface cleaners

ACCURACY IN COMBINATION WITH BIOPROTT™ FLOWSU SENSOR

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. For flow ranges, see data sheet of the BioProTT™ FlowSU Sensor
- 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
Temperature Range	10° C to 40° C (50° F to 104° F)
Relative Humidity	10 % to 96 % (non-condensing)

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