



SONOFLOW® CO.55 V3.0 Non-Contact Clamp-On Flow Meters



SONOFLOW CO.55 clamp-on flow meters are designed for upstream and downstream flow measurement in bioprocessing. The non-contact ultrasonic sensors combine outstanding measurement accuracy over a wide flow range and highest clamp-to-clamp repeatability. The compact SONOFLOW CO.55 V3.0 flow meters with integrated electronics are suitable for applications ranging from process development through GMP to fill and finish operations.



Measurement accuracy of 1% even at lowest flow rates



Excellent clamp-to-clamp repeatability for standard bioprocessing tubing



Reliable real-time flow measurement from 5 mL/min to 180 L/min



Key Features



- Non-contact design preventing any media contamination and shear stress on cells
- GMP-friendly stainless steel housing with intuitive color touch display
- Volume totalizing and dosing output switch
- Configurable air bubble detection
- Stable measurement unaffected by bubbles and different pressure conditions
- Integrated electronics, no external transmitter required
- Reusable, thereby sustainable and cost-saving

Intuitive and Easy to Handle



Sensor Selection



Parameter Setting



System Integration



Flow Measurement

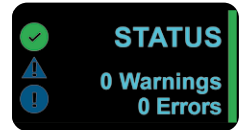
Intuitive Color Touch Display



SONOFLOW CO.55 SD V3.0 is the only non-contact flow meter for GMP environments with a built-in color touch display for instant data monitoring at the point of use.

For maximum user-friendliness, the display is divided into three sections that can be easily tapped to:

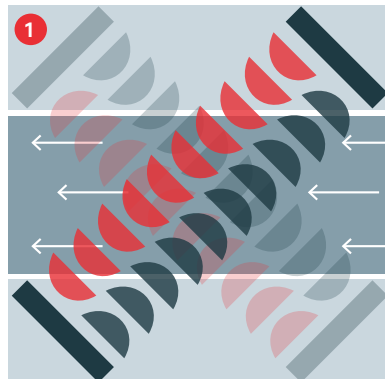
- Monitor and reset real-time flow data
- Monitor and reset real-time volume data
- Get status information and bubble alerts
- Perform incremental flow adjustments
- Lock the display



Technical Data

Measuring Method	Ultrasonic transit-time	Current Consumption	30 mA max
Measuring Cycle	20 ms	Electrical Connection	8-pin M12 connector
Outer Diameter – Tubing	1/4" ... 1 3/8"	Ambient / Media Temperature	0... +60 °C
Interfaces	4 ... 20 mA, 0 ... 20 kHz, PNP/NPN, RS-485 Modbus, digital input	Storage Temperature	-20... +70 °C
Operating Voltage	12... 30 VDC	Protection Class	IP65

Measurement Principle



SONOFLOW flow meters use the ultrasound transit-time technology to accurately determine the flow rate. The sensor measures the time of flight of the ultrasonic wave with and against the flow direction of the liquid.

The time difference between both signals is a measure of the velocity of the streaming liquid. Measurements are taken in picoseconds and averaged to readings of 10 ms cycle. The specific flow volume is calculated from the fluid velocity and the known area of the measurement channel.

- 1 Ultrasonic waves with and against flow direction

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