

MicroBubbleScope

The MicroBubbleScope is a dedicated in-situ probe with a wetted length of 220 mm, specifically designed for gas-liquid applications in laboratory, pilot scale or production environments.



The MicroBubbleScope can measure the size and shape of bubbles in bubbly flows and foams in the food industry (e.g. sweets, baked goods, dairy products, beverage filling, coffee, etc... or in non-food applications (e.g. pulp mixing, tissue production, gypsum plasterboard production, polyurethane foams, etc...).

For example, the foam can also be measured directly at the exit of a foam generator. There are numerous process connectors available, depending on the installation point.



Complete your system:

- Reflectors available
- Different types of compression fittings
- PCS control via Modbus TCP/IP or OPC UA

Parameter	Specification
Particle Size Range	9 – 1,100 µm
Field of View (diag.)	2,600 µm
Dimensions & Weights	
Housing	Length: 240 mm Diameter: 72 mm
Protection Tube	Immersible length: 220 mm Tube diameter: 19.05 mm (3/4")
Weight	3.2 kg
Materials	
Housing	1.4404 (316L)
Protection Tube	1.4404 (316L), 0.6 µm surface roughness
Probe Tip Window	Sapphire
Solder	Au/Sn 80/20
Cable	2.5 m hygienic conduit, 1.4404 fittings, color grey, PVC protection hose, PSRSC spiral reinforced, smooth inside and outside, for food zone & non-contact application areas.
Technical Data	
Permissible Process Temperature	-10 – 130°C (temperatures up to 450°C achievable with cooling tube accessory)
Permissible Ambient Temperature	0 – 40°C
Permissible Process Pressure	0.01 – 10 bar
Camera	5.1 MP Machine Vision Camera with GigE Interface, 15 fps
Power Supply	141 VA (50-60 Hz)
Cable	Standard length: 2.5 m Diameter: 27 mm Bending Radius: 19 cm
Approvals	
Protection	IP 65
Compliance	RoHS conform according to 2011/65/EU