



AQ Air Sensor

Continuously monitors gas and particles in flowing liquid

AQ Air Sensor operates without direct contact with liquid. The liquid that flows through the sensor is monitored using soundwaves. The soundwaves register the presence of gas and particles and the results are displayed on an external control unit.

■ Design

AQ Air Sensor is compact, turned from one piece and the inside is completely smooth, $Ra < 0.4\mu m$.

All wetted parts are made of acid-proof steel or polypropylene. AQ Air Sensor can be CIP (Clean In Place) and the steel air sensor can furthermore be SIP (Steam In Place) up to $130^{\circ}C$. The AQ Air Sensor has full traceability with 2.1B certificates (polypropylene) and 3.1B certificates (316 L steel)

All the connections are standard tri clamp connections which gives good aseptic and makes it easy to assemble and disassemble. The Air Sensor in acid-proof steel comes with connector (SAC model) or without connector (FCS model).

■ Adjustable

The AQ Air Sensor can be set on different levels of sensitivity. At maximum sensitivity the sensor detects bubbles as small as 2 mm.

At low sensitivity the sensor detects liquid or no liquid.

■ Usable in many areas

AQ Air Sensor can be used in biochemical industries and different process industries as a:

- pump guard
- bubble sensor

There is an explosion safe model of AQ Air Sensor that can be used in explosive environments.

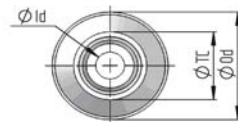
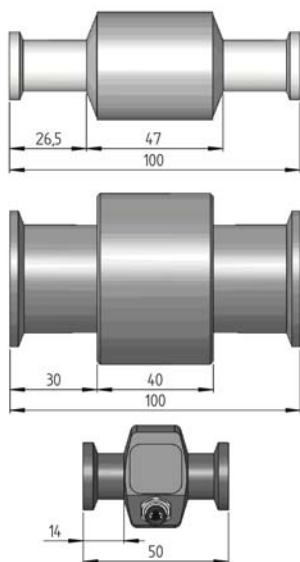
■ Reliable and flexible

AQ Air Sensor shall be connected to an external control unit, Ultrasound Controller D72 or DP72.

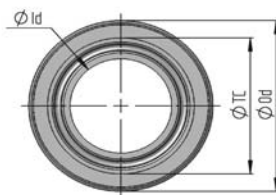
No moving parts, easy connection and calibration makes AQ Air Sensor very reliable and easy to use.



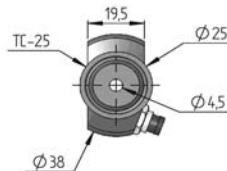
AQ Elteknik AB



Air Sensor FCP (Polypropylene)



Air Sensor FCS (Acid-Proof Steel)
Air Sensor SAC (Acid-Proof Steel)




Air Sensor SAC (Acid-Proof Steel)
SAC4.5-25, SAC6-25, SAC8-25


AQ Air Sensor, PP (Polypropylene)

Model number	FCP4-25	FCP6-25	FCP10-25	FCP14-25	FCP22-50	FCP38-64
Id (Inner diameter)	4 mm	6 mm	10 mm	14 mm	22 mm	38 mm
Od (Outer diameter)	40mm	40mm	40mm	40mm	76mm	76mm
TC (Tri Clamp Connection)	25	25	25	25	50	64
Standard cable length	5 m Option: Up to 25meters					


AQ Air Sensor, 316L (Acid-Proof Steel) with fixed cable

Model number	FCS10-25	FCS16-25	FCS16-50	FCS22-50	FCS35-50	FCS46-64
Id (Inner diameter)	10,0 mm	16,0 mm	16,0 mm	22,0 mm	35,0 mm	46,0 mm
Od (Outer diameter)	51mm	51mm	64mm	64mm	64mm	76mm
TC (Tri Clamp Connection)	25	25	50	50	50	64
Standard cable length	5 m, Option: Up to 25 meters (10 meters in Ex model)					
Option	Ex model, SPO4ATEX3622X,  II 1/2 G EEx ia IIB T4					

AQ Air Sensor, 316L (Acid-Proof Steel) with connector

Model number	SAC4.5-25	SAC6-25	SAC8-25	SAC10-25	SAC16-25
Id (Inner diameter)	4,5 mm	6,0 mm	8,0 mm	10,0 mm	16,0 mm
Od (Outer diameter)	38mm	38mm	38mm	51mm	51mm
TC (Tri Clamp Connection)	25	25	50	25	25
Model number	SAC16-50	SAC22-50	SAC35-50	SAC46-64	SAC60-77
Id (Inner diameter)	16,0 mm	22,0 mm	35,0 mm	46,0 mm	60,0mm
Od (Outer diameter)	64mm	64mm	64mm	76mm	102mm
TC (Tri Clamp Connection)	50	50	50	64	77
Standard cable length	7 m, Option: 20m or 40m				
Option	Ex model, SPO8ATEX3637X  II 1/2G EEx ia IIB T4 (Not available for SAC4-SAC8)				

Control Unit

Model number  Ultrasound Controller D72 or DP72 (see datasheet for Ultrasound Controller)



AQ Elteknik AB

Alsikegatan 4

753 23 Uppsala

+46 (0) 18-18 34 30

www.aqeltek.se