



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 2mm.

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

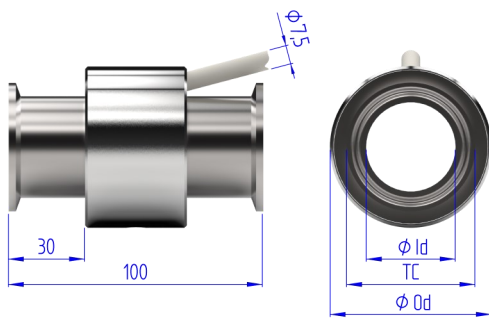
AQ Air Sensor shall be connected to an external control unit, Ultrasound Controller D72 or DP72.

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

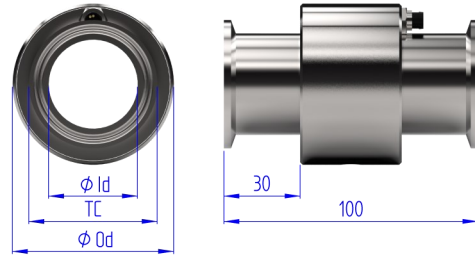


AQ Air Sensor, drawings and dimensions

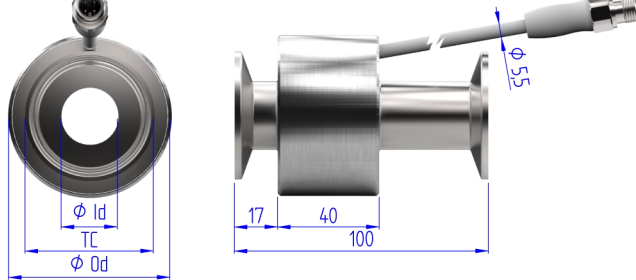
**AQ Air Sensor
FCS**



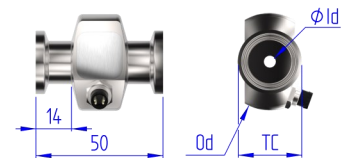
**AQ Air Sensor
SAC > 8mm**



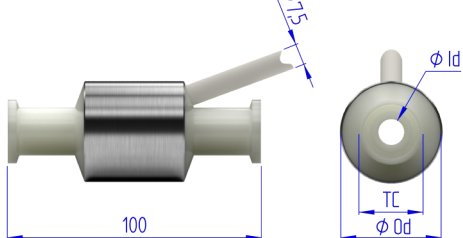
**AQ Air Sensor
CCS**



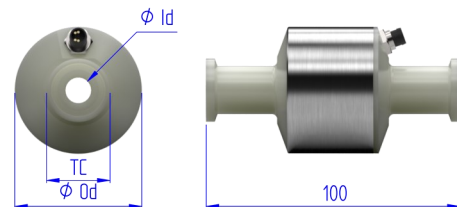
**AQ Air Sensor
SAC < 9mm**



**AQ Air Sensor
FCP**



**AQ Air Sensor
PAC**



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AQ Air Sensor, 316L (Acid-proof Steel) model CCS

Model number	CCS9.4-25	CCS15.75-25	CCS22.1-50	CCS34.8-50	CCS47.5-64	CCS60.2-77
Id (Inner diameter)	9.4 mm	15.75 mm	22.1 mm	34.8 mm	47.5 mm	60.2mm
Od (Outer diameter)	51mm	51mm	64mm	64mm	76mm	102mm
TC (Tri Clamp Connecion)	25	25	50	50	64	77
Extension cable length	7 m, Option: 20m or 40m			Fixed 0.5m cable from the sensor		

AQ Air Sensor, 316L (Acid-proof Steel) model SAC

Model number	SAC2-25	SAC4.5-25	SAC6-25	SAC8-25	SAC10-25	SAC16-25
Id (Inner diameter)	2,0 mm	4,5 mm	6,0 mm	8,0 mm	10,0 mm	16,0 mm
Od (Outer diameter)	38mm	38mm	38mm	38mm	51mm	51mm
TC (Tri Clamp Connecion)	25	25	25	25	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	60,0 mm
Od (Outer diameter)	64mm	64mm	64mm	76mm	102mm
TC (Tri Clamp Connecion)	50	50	50	64	77


Standard cable length 7 m, Option: 20m or 40m  II 1/2G Ex ib IIB T4 Ga/Gb
(Not available for SAC4-SAC8)

Option Ex model, SP17ATEX3654X

AQ Air Sensor, 316L (Acid-proof Steel) model FCS

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 Connecion)	25	25	50	50	50	64

Standard cable length 5 m, Option: Up to 25 meters (10 meters in Ex model)

Option Ex model, SP17ATEX3654X,  II 1/2G Ex ib IIB T4 Ga/Gb

AQ Air Sensor, PP (Polypropylene) model PAC

Model number	PAC4-25	PAC6-25	PAC10-25	PAC14-25	PAC22-50	PAC38-64
Id (Inner diameter)	4 mm	6 mm	10 mm	14 mm	22 mm	38 mm
Od (Outer diameter)	50mm	50mm	50mm	50mm	76mm	84mm
TC (Tri Clamp Connecion)	25	25	25	25	50	64
Standard cable length	7 m Option: 20m or 40m					

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 Connecion)	25	25	25	25	50	64
Standard cable length	5 m Option: Up to 25 meters					

Control Unit

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

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