



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.

■ 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

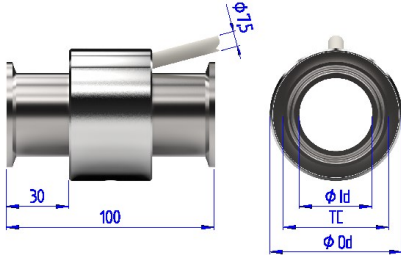
AQ Air Sensor shall be connected to an external control unit, Ultrasound Controller D72/DP72 or D107.

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

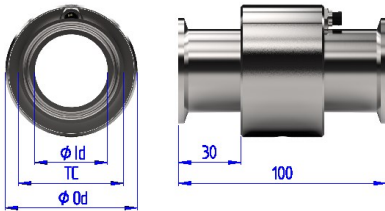


AQ Air Sensor, drawings and dimensions, specifications

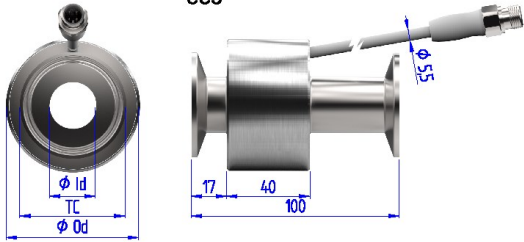
AQ Air Sensor FCS



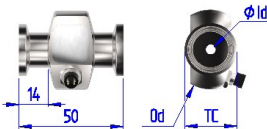
AQ Air Sensor SAC > 8mm



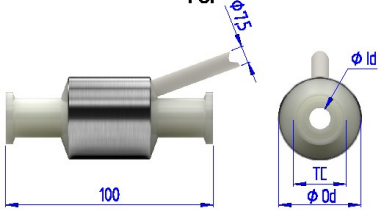
AQ Air Sensor CCS



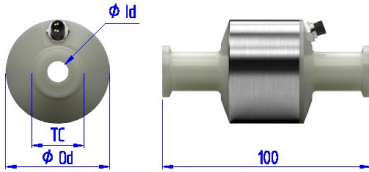
AQ Air Sensor SAC < 9mm



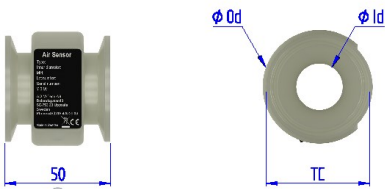
AQ Air Sensor FCP



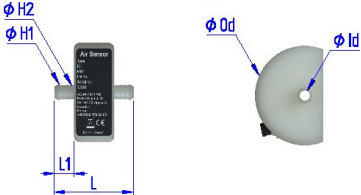
AQ Air Sensor PAC



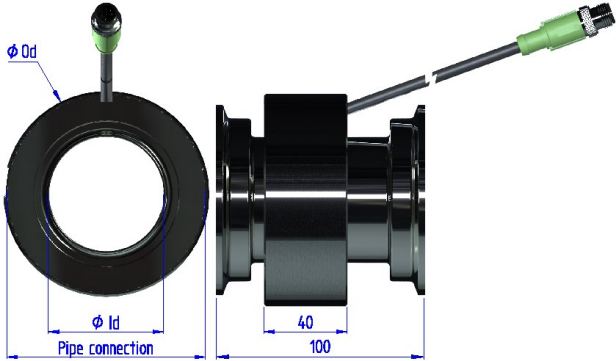
AQ Air Sensor APS/DAP



AQ Air Sensor DAT



AQ Air Sensor CQS



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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 | 7,75 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 | | | | |

Option Ex model, SP17ATEX3654X  II 1/2G Ex ib IIB T4 Ga/Gb
(Not available for SAC2-SAC8)

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

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|
| 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, 316L (Acid-proof Steel) model CQS (Quad piezo channels)

| | |
|------------------------------|------------|
| Model number | CQS56.3-91 |
| Id (Inner diameter) | 56.3 mm |
| Od (Outer diameter) | 101.5mm |
| Connecion—DIN 11865-3 Form A | DN50 |

Stainless steel sensors (FCS, SAC, CCS, CQS) fulfils:
Traceability 3.1
AOF



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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 FCP

| | | | | | | |
|--------------------------|-----------------------------|---------|----------|----------|----------|----------|
| 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 | | | | | |

AQ Air Sensor, PP (Polypropylene) model APS

| | | | |
|--------------------------|---------|----------|----------|
| Model number | APS6-25 | APS10-25 | APS22-50 |
| Id (Inner diameter) | 6 mm | 10 mm | 22 mm |
| Od (Outer diameter) | 49mm | 49mm | 54mm |
| TC (Tri Clamp Connecion) | 25 | 25 | 50 |

AQ Air Sensor, PP (Polypropylene) model DAP (Single Use, clean room manufactured)

| | | | |
|--------------------------|---------|----------|----------|
| Model number | DAP6-25 | DAP10-25 | DAP22-50 |
| Id (Inner diameter) | 6 mm | 10 mm | 22 mm |
| Od (Outer diameter) | 49mm | 49mm | 54mm |
| TC (Tri Clamp Connecion) | 25 | 25 | 50 |

AQ Air Sensor, PP (Polypropylene) model DAT (Single Use, clean room manufactured)

| | | |
|---------------------|-----------|--------|
| Model number | DAT-4.8-A | |
| Id (Inner diameter) | 4.8 mm | |
| Od (Outer diameter) | 49mm | |
| Hose/barb connector | H1=8mm | H2=7mm |
| | L1=9,5mm | L=39mm |

Plastic sensors (APS, PAC, FCP, DAP, DAT) fulfils:

Traceability 2.2

USP88 class VI

AOF

21§CFR177.1520

ISO 10993-5



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