

Sample Tubes Series AST

Unheated sample tubes

Sample tubes series AST are used in combination with Ankersmid The Ankersmid top-filters are used together with gas sample probes sample probes to extract sample gas in the optimal section of the gas-stream. For an optimal measurement of a representative sample a position in the middle third of the gas stream is advised.

| Proces | s temperature | Material | Туре |
|--------|---------------|-----------------|---------------|
| | 0 - 160°C | PTFE | AST 41X |
| | 0 - 440°C | Titanium | AST 42X |
| | 0 - 600°C | Stainless steel | AST 40X |
| | 0 - 960°C | Hastelloy C® | AST 431/2/3/4 |
| | 0 - 1400°C | Kanthal® | AST 435/7/8 |
| | 0 - 1600°C | Saphalloy® | AST 436 |

Demister tubes for wet processes

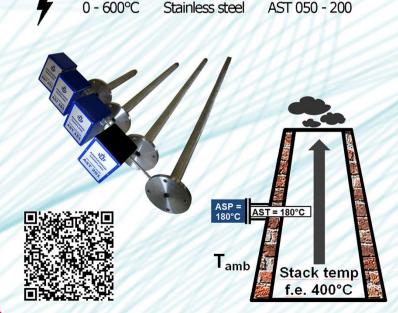
For gas sampling downstream a wet scrubber with high water content the tube type ADT, equipped with an integrated demister for liquid drop collection and rejection to the process, is available.



0 - 95°C

Heated sample tubes for operating temperatures

Electrically heated sample tubes series AST are used in extractive sampling systems to avoid dew-point problems and condensation in the insitu tube during transfer from the sample point to the heated sample probe. Heated sample tubes avoid cold spots and thermal bridges due to thick stack walls.



Top-Filters Series ATF

Top-filter for high-dust loaded processes

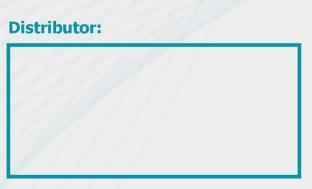
series ASP for continuous gas sampling in processes with increased dust loading. These extra stainless filters can be mounted on top of the sample tubes in case of very high dust levels (> 10g/m³).

| Process temperature | Material | Туре | |
|---------------------|----------------|-------------|--|
| 0 - 600°C | Sintered steel | ATF 180/050 | |
| | | | |

Ankersmid Sampling BVBA

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Stationary Gas Sample Probes Series ASP

The gas sample probes series ASP are designed for continuous gas sampling in difficult processes with gases of high and low dust content, different temperatures and extreme humidity. Due to various acid dew-points the probe can be heated up to max. 320°C (f. e. DeNOx-applications). A wide range of filter elements and process top-filters are available to customize the sample probe to each application. Various features like test gas, back-purge and shut-off valves, timer relays, adaptor flanges, integrated NOx-converter or oxygen sensor are available.

Applications:

Stack and environmental measurement

Continuous Emission Monitoring (CEM)

Chemical and Petro-chemical processes

Steel plants

Incinerators

Oil and Gas refineries

and many more...

"Innovative and unique features are our standard"

Reference customers:











| eating If-limiting with fixed operating mperature | Electrical | | | O MARIENTO | 15 | |
|---|--------------------------|-------------------------|--|--|--|---------------------|
| If-limiting with fixed operating | Electrical | | 0.4840 | | | |
| If-limiting with fixed operating | Electrical | E1-1-1-1 | 22 T 5 T 5 T 5 | | | |
| If-limiting with fixed operating mperature | ~ | Electrical | Electrical | Electrical | Steam-driven | Electrical |
| | | × | × | ~ | × | × |
| ljustable for variable operating mperature | ~ | ~ | ~ | × | × | ~ |
| perating temperature | 0-200°C (max. 320°C) | 0-200°C (max. 320°C) | 0-200°C (max. 320°C) | 180°C | 0-200°C (max. 350°C) | 0-320°C |
| est/calibration gas | OF CONTROL COMPANY CO. | • | Section states in the Section Sect | | ************************************** | |
| a probe filter element *1 c. to EN14181 | / | ~ | ~ | ~ | ~ | ~ |
| a probe sledge for *2 are calibration | | / | ~ | × | × | 1 |
| ptions | | | | | | |
| etractable system to change sample tube/top-filter thout demounting the probe | ~ | ~ | ~ | × | × | ~ |
| eumatic isolation valve to shut-off *4 e sample outlet from the process | / | ~ | ~ | × | × | × |
| obe filter | | | | | | |
| m, OD: 30mm/L: 150mm sterial: ceramics | / | × | × | ~ | / | ~ |
| m, OD: 40mm/L: 180mm Iterial: sintered steel | × | ~ | × | × | × | X |
| m, OD: 40mm/L: 500mm Iterial: sintered steel | × | × | ~ | × | × | X |
| ocess dust loading ithout top-filter and ck-flush options) | 0-2g/m³ | 2-10g/m³ | >10g/m³ | 0-2g/m³ | 0-2g/m ³ | 0-2/m³ |
| p-filter | | | | | | |
| F 180, 5μm, OD: 40mm, L: 180mm | | X | X | X | X | 1 |
| ocess dust loading | 2-10g/m ³ | / / / | ////// | 67.5 | | 2-10/m ³ |
| F 050, 5µm, OD: 40mm, L: 500mm | | /x/ | /x | × | × | |
| ocess dust loading | >10g/m³ | 1/ | ///// | | | >10/m³ |
| nck-flushing | | | | | | |
| mple tube/top-filter *5 /passing the probe filter element) | /1 | /// | // | / | 1 | ~ |
| bbe filter element and *6 mple tube/top-filter | 1 | | | × | × | 1 |
| t \\\\\\ /*2 / | *3 | *4 | *5 | | *6 | |
| | | | | 1///////////////////////////////////// | | 4/1/10 |
| -// -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ | | | Purge gas out | mm S | Purge gas out | inner C |

Gas Sample Probe Series ASP

