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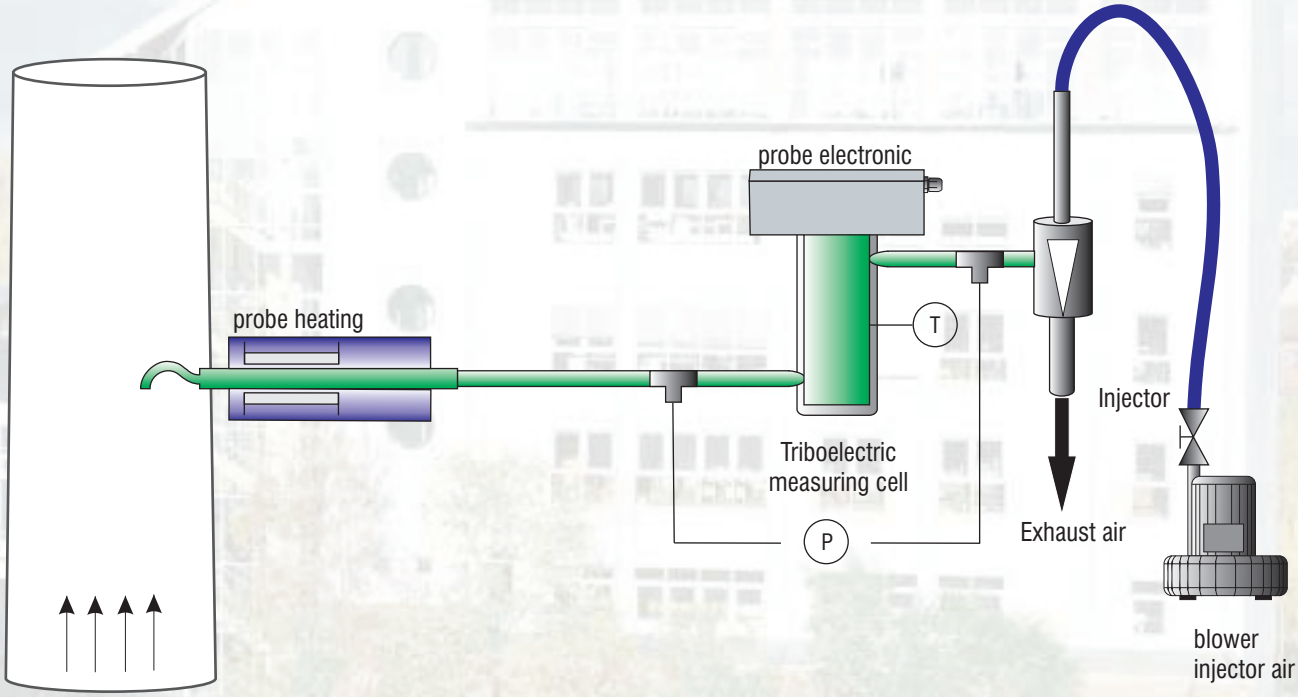
Product information AMD 08

The acid dew point measuring device AMD 08 allows an online monitoring of the acid dew point in flue gases of combustion plants.
By means of the continuous acid dew point measurement it is possible to reduce the exhaust gas temperature of the power plant in a technologically feasible and economically reasonable way.
Until now the exhaust gas temperature is hold with a safety cushion of upto 20 K above the expected acid dew point. If the acid dew point is known, the safety cushion can be reduced without having to expect plant damages caused by corrosion. The lowering of the exhaust gas temperature leads directly to an increase of the plant`s net efficiency.



Function scheme

The acid dew point measuring device AMD 08

Based on the extractive dust measuring device PFM 97 ED the AMD 08 has been developed. The measuring gas is extracted from the process via probe and led to the measuring cell via heated bypass. The gas is cooled down in a defined way via the control of the bypass temperature. The sensor of the measuring cell detects acid components condensing out and forming an acid film.
Contrary to previous manual acid dew point measurements the system provides continuously ca. every 90 minutes a new measuring value.
The maintenance interval is ca. 2 weeks from experiences. The necessary works to get back into operation can be done easily and fast by trained operator`s staff.

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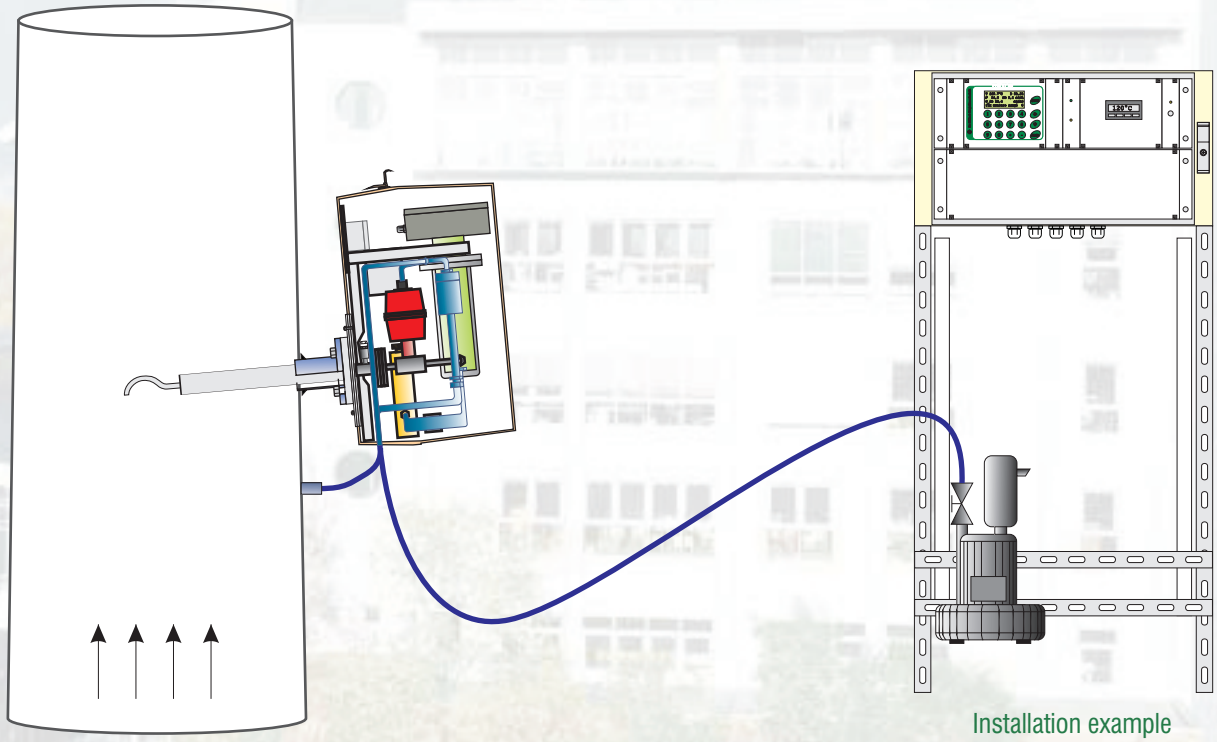
Highlights of the device:

□continuously working acid dew point measuring device
□output of acid dew point as analogue signal
□possibility for remote maintenance

Application possibilities:

□as process measuring device to control the flue gas temperature
□to avoid corrosion in flue gas channels before FGD caused by acids
□to increase efficiency and therefore fuel saving and CO2-reduction



Installation example

General technical data

Control unit:	Steel-sheet case on frame (incl. blowers)
Probe:	Extractive sampling with GRP weather protection hood
Measuring principle:	Detection in a triboelectric measuring cell
Duration of a measuring cycle:	ca. 90 min
Display:	4-line LCD-Display / PC service software available
Media temperature:	max. 200 °C (higher temperatures on request)
Ambient temperature:	-20 ... +50 °C
Analogue outputs:	4 ... 20 mA
Digital signals:	6 potential-free contacts (failure, maintenance, maintenance request)
Power supply:	400 VAC / 50 - 60 Hz