



Paul Gothe GmbH environmental control technology

This form should help you to give us all necessary information that we can create an offer about the sampling line you need. To save the form, you need the actual pdf-reader.

At first, please do some pre preparations. Use all information how the sampling should be done. Helpful information in english can you find in the new VDI 2066 and the EN 13284. An overview get you in our short information: manual.paulgothe.de/sampling_dust_general_information.pdf


Following information are important:

1. Diameter of the duct and support opening: You must measure one sampling point close to the opposite wall. This give you an idea how long the suction tube should be + wall isolation + holder for the suction tube (~ 180 mm) + length for the handling.
2. Are water droplets in the gas? If yes, you must heat the gas about the dew point before it arrived the filter. You have to place the filter OUT-Stack and it must be heated.
3. It is always better to place the filter IN-Stack. Is this possible? Opening must be 3".
4. Maximum of the gas velocity? Calculate the nozzle opening for the isokinetic sampling and if the standard openings (6 - 14 mm) are too small, order the correct opening.
5. Do you have corrosive gases? Stainless steel is cheaper but in some cases you need Titanium. On our homepage you find information about the material.
6. Manual adjustment or automatically isokinetic regulation? If you have a small budget, it is not always necessary to take the isokinetic controlling unit. You have constant gas velocity and a good flow profil, you can use the manual adjustment. The flow meter in the suction line help to adjust the constant flow.
7. The filter must be conditioned before sampling. Calculate the amount of filter holder you need for the sampling (one as spare and for the quality check).

Please note: Shipping cost can only calculate, if we know all parts from your order. Please understand that we calculate the shipping price not before we are not sure that you want to order all parts from the last offer. We will do no prior calculation!

Name _____ Company Name _____
E-Mail-Address _____ Address _____


What should be measure? only dust (use for each components a single form)
dust and the filter passing elements
(Hg, heavy metal etc.)

Filter placed: IN Stack (filter is inside the duct, must not be heated, no water droplets in the gas) IN-Stack: 
OUT-Stack (filter is outside of the duct and must be electrical heated to avoid condensation)

Length of the suction tube 500 mm please note:
1000 mm For the length of the suction tube considered the distance from sampling point inside the duct to the outside wall and include duct
1500 mm isolation and sleeve/flange + holder.
2000 mm

Holder for the suction tube yes 3" opening eg.: holder for the combination probe 3": 
yes 2" opening
no holder

Version of the suction tube heated combi-probe (Pitot tube, NiCr-Ni and suction line in one tube) Information about the suction tubes see here:
not heated combi-probe (Pitot tube, NiCr-Ni and suction line in one tube) www.paulgothe.com/probe
heated standard probe, separate Pitot tubes * Heated version, if filter outside the duct and if the gas has water droplets.
not heated standard probe, separate Pitot tubes * For the isokinetic sampling must be determine the gas velocity. If you not use the combi-
heated standard probe, without separate Pitot tubes probe with integrated Pitot tube, you can insert the Pitot tube at one separate opening.
not heated standard probe, without separate Pitot tubes

If filter outside heater for the filter outside
no heater (filter device not heated) 



Filter device plane filter for low dust range (up to 50 mg/m³) Information about the filter devices and the range of application see here:
tubular filter (dust range from 20 to 1000 mg/m³) www.paulgothe.com/filter-device

Amount of filter holder the filter will be placed inside the filter holder and is reusable. 8 
16
24

Material stainless steel (500 °C, if the gas is not corrosive)
Titanium (400 °C), if gas is corrosive

Suction line automatic controller for the isokinetic sampling Information see here:
manual suction system (only gas meter, flow meter and pump), isokinetic adjustment must be done manually www.paulgothe.com/suction
already exists

In case of heavy metal or Hg sampling: To catch the filter passing elements, must be placed liquid filled impingers behind the filter. The sampling must done isokinetically. To be sure that you have the wide range for the isokinetic adjustment, use one main gas flow through the filter for the isokinetic regulation and one constant bypass gas flow through the impinger. You need one gas distributor and one impinger set. The constant sampling flow rate through the impinger would be done with one separate constant flow sampler. In case that you don't use the bypass version, the complete isokinetic sampling flow must run through the impingers. The maximum flow rate through impinger is 1 m³/h.

Bubbler yes with bypass version 
yes without bypass 
no offer, please

Constant sampler yes Information see here:
already exist www.paulgothe.com/Compact-and-robust-gas-sampler-with-CP-Modul

Comment:

Please save this form on your computer (you need the actual pdf-reader) and send it as attachment to the following E-Mail address: service@paulgothe.de

Many thanks for your request
Your Paul Gothe Team