

## Customer / Project

Company	_____	Final customer	_____
Project	_____	Country end customer	_____
Order No.	_____	Required certificate	_____
Inquiry No.	_____	Plant type	_____
Contact	_____	Fuel	_____
Phone	_____	Plant capacity	_____
Email	_____	Preferred device type	_____
Date	_____	Number of devices	_____

## Instrument Details

Instrument supply voltage	230 V/50 Hz	115 V/60 Hz	other: _____ V/ _____ Hz	1-phase	2-phase
<b>Purge air fan</b>	115/230 V	50/60 Hz	3-phase 230/400 V 50 Hz, 245/430 V 60 Hz		
(if required)	other*: _____ V/ _____ Hz	1-phase	3-phase		

### F-904-20 and HM 1400 TRX gas sampling devices ONLY:

Distance between sampling point and analyzer \_\_\_\_\_ m, pref. <20 m for F-904-20, <15 m for HM 1400 TRX

## Measured Components

Dust concentration*	Measuring range 0... _____	mg/m <sup>3</sup>
Opacity	Measuring range 0... _____	% Opacity
Soot number*	Measuring range 0... _____	RZ (Bacharach)

Gas velocity	Measuring range 0... _____	m/s			
Temperature sensor required	Pressure sensor for calculation of standard flow Nm <sup>3</sup> /h required				
<b>D-FL 100:</b>	ΔP Sensor mounted on the probe	ΔP via hose/pipe connection	Counter support	yes	no

Total mercury*	Measuring range 0... _____	μg/m <sup>3</sup>
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\* Needs reference calibration performed by accredited institute (if required)

## Standard Plant Conditions

	min.	avg.	max.		
Ambient temperature	_____	_____	_____	°C	
Ambient humidity	_____	_____	_____	% r.H.	
Ambient pressure	_____	_____	_____	hPa	mbar
Stack gas temperature	_____	_____	_____	°C	
Stack gas pressure	_____	_____	_____	hPa	mm H <sub>2</sub> O
Water in stack gas	_____	_____	_____	Vol.%	g/m <sup>3</sup>
Water dew point	_____	_____	_____	°C	
Acid dew point	_____	_____	_____	°C	
Stack gas velocity	_____	_____	_____	m/s	
Stack gas volume	_____	_____	_____	m <sup>3</sup> /h	Nm <sup>3</sup> /h
Stack gas quantity	_____	_____	_____	kg/s	kg/h
Standard gas density	_____	_____	_____	kg/Nm <sup>3</sup>	
Dust	_____	_____	_____	mg/m <sup>3</sup>	mg/Nm <sup>3</sup>
Mean dust particle size	_____	_____	_____	μm	
SO <sub>2</sub>	_____	_____	_____	mg/m <sup>3</sup>	ppm
NO <sub>2</sub>	_____	_____	_____	mg/m <sup>3</sup>	ppm
CO	_____	_____	_____	mg/m <sup>3</sup>	ppm
O <sub>2</sub>	_____	_____	_____	Vol.%	ppm
HCl	_____	_____	_____	mg/m <sup>3</sup>	ppm
HF	_____	_____	_____	mg/m <sup>3</sup>	ppm
Hg	_____	_____	_____	μg/m <sup>3</sup>	ppm
NH <sub>3</sub>	_____	_____	_____	mg/m <sup>3</sup>	ppm

### Type of filters installed upstream of the sample point

Electrostatic precipitator ESP    Bag house    Wet scrubber    other: \_\_\_\_\_

**Area classification**    Non-Ex    Zone \_\_\_\_\_    Class \_\_\_\_\_    Division \_\_\_\_\_

**Occurrences of temperatures below dew point**    none    weekly    daily

**Stack/Duct Details**

**Mounting location**      indoor      outdoor      Weather protection cover required  
**Stack/ duct orientation**      horizontal      vertical

**Internal diameter at the stack exit**



**Stack/ duct material**

- carbon (mild) steel
- stainless steel
- brick
- concrete
- FRP
- other: \_\_\_\_\_

**Mounting flange**

required  
available

**Flange material**

- carbon (mild) steel
- stainless steel
- other: \_\_\_\_\_

**Flange orientation**



Type \_\_\_\_\_  
 Length \_\_\_\_\_  
 IDf \_\_\_\_\_  
 Lf \_\_\_\_\_

**Internal lining/ material**

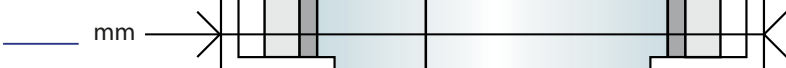
\_\_\_\_\_

undisturbed outlet section

> 2 x ID, > 5 x ID  
to top of stack

other: \_\_\_\_\_ mm

**Distance flange to flange**



**Measuring path length**



**Stack/ duct shape**

circular

Internal diameter at the measuring point



rectangular

width: \_\_\_\_\_ mm x depth: \_\_\_\_\_ mm

**Additional Information**

\_\_\_ Page (s) enclosed

**Stack wall thickness**



undisturbed inlet section

> 5 x ID

other: \_\_\_\_\_ mm

**External diameter**



**Insulation thickness**



**Double walled stack**

yes    no

space between walls



Flow direction