



GT90 Dioxin+ (standard and compact versions)

GT90 Dioxin+ is a fully automated MCERTS certified solution for isokinetic sampling of dioxin emissions, fulfilling all requirements of the dioxin measurement standard EN1948.

System specifications

Sampling principle	Dilution method according to EN1948-1 and CEN/TS 1948-5	
Isokinetic control	Directly at each physical sampling point	
Sampling interval	2 hours to 6 weeks (I-TEQ PCDD/F usually 2 or 4 weeks)	
Measuring range	0.01 to 100 ng I-TEQ/m ³ (with sampling interval of 6 hours) 0.0001 to 10 ng I-TEQ/m ³ (with sampling interval of 6 weeks)	
Power supply	Standard version:	400 VAC, 3 x L+N+PE Option: 230 VAC, 1 x L+N+PE (L=phase, N=neutral, PE=protective earth)
	Compact version:	230 VAC, 1 x L+N+PE
Heated sampling probe	Standard version:	Two zero-pressure probes
	Compact version:	One zero-pressure probe
	Material:	Titanium
Heated line	Length:	2-70 m (chosen according to site)
Filter System	2-stage dry solid filters	
Signals and connections		
Input	Analog input(s):	Flue gas oxygen (O ₂)
	Other contact(s):	External standby, "plant in operation"
Output	Other contact(s):	3 device status contacts
	Options:	2 analog signals 8 digital signals
Remote control	Internet TCP/IP, option for cellular connectivity	
Enclosure	Dimensions (H x W x D):	
	Control unit	1710 x 620 x 620 mm (68/25/25 inches)
	Outer sampling unit (outside the stack)	600 x 520 x 280 mm (24/21/11 inches)
	Inner sampling unit (inside the stack)	Depends on length of probes
	Material:	Steel
	IP class:	IP54
Weight	Standard version:	Control unit approximately 180 kg Sampling unit approximately 25 kg
	Compact version:	Control unit approximately 170 kg Sampling unit approximately 20 kg

Sample gas conditions

Sample gas temperature	Up to 250 °C)
Sample gas humidity	Up to 350 g/m ³
Sample gas dust content	0 – 20 mg/m ³ (up to 150 mg/m ³)
Sample gas velocity	1 – 45 m/s

Operating conditions

Ambient temperature	Control unit	0 – 45 °C
	Sampling unit	-10 – 55 °C
Ambient relative humidity	Control unit	10 – 90 % (non-condensing)
	Sampling unit	10 – 95 % (non-condensing)

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