



## **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

<b>Sampling principle</b>	Dilution method according to EN1948-1 and CEN/TS 1948-5	
<b>Isokinetic control</b>	Directly at each physical sampling point	
<b>Sampling interval</b>	2 hours to 6 weeks (I-TEQ PCDD/F usually 2 or 4 weeks)	
<b>Measuring range</b>	0.01 to 100 ng I-TEQ/m <sup>3</sup> (with sampling interval of 6 hours) 0.0001 to 10 ng I-TEQ/m <sup>3</sup> (with sampling interval of 6 weeks)	
<b>Power supply</b>	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
<b>Heated sampling probe</b>	Standard version:	Two zero-pressure probes
	Compact version:	One zero-pressure probe
	Material:	Titanium
<b>Heated line</b>	Length:	2-70 m (chosen according to site)
<b>Filter System</b>	2-stage dry solid filters	
<b>Signals and connections</b>		
Input	Analog input(s):	Flue gas oxygen (O <sub>2</sub> )
	Other contact(s):	External standby, "plant in operation"
Output	Other contact(s):	3 device status contacts
	Options:	2 analog signals 8 digital signals
<b>Remote control</b>	Internet TCP/IP, option for cellular connectivity	
<b>Enclosure</b>	<b>Dimensions (H x W x D):</b>	
	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
	<b>Material:</b>	Steel
	<b>IP class:</b>	IP54
<b>Weight</b>	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

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<b>Sample gas temperature</b>	Up to 250 °C
<b>Sample gas humidity</b>	Up to 350 g/m <sup>3</sup>
<b>Sample gas dust content</b>	0 – 20 mg/m <sup>3</sup> (up to 150 mg/m <sup>3</sup> )
<b>Sample gas velocity</b>	2 – 20 m/s

## Operating conditions

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

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