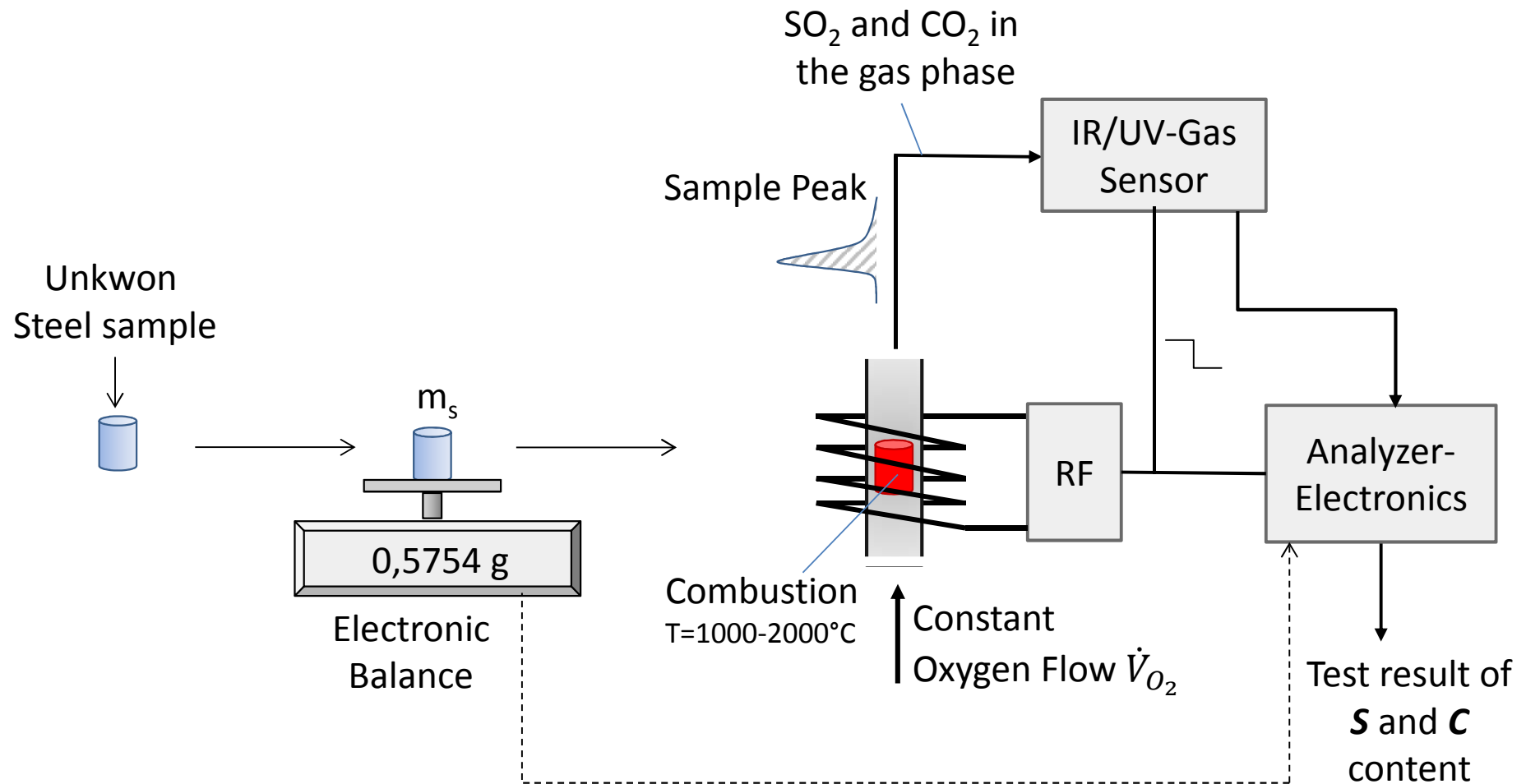


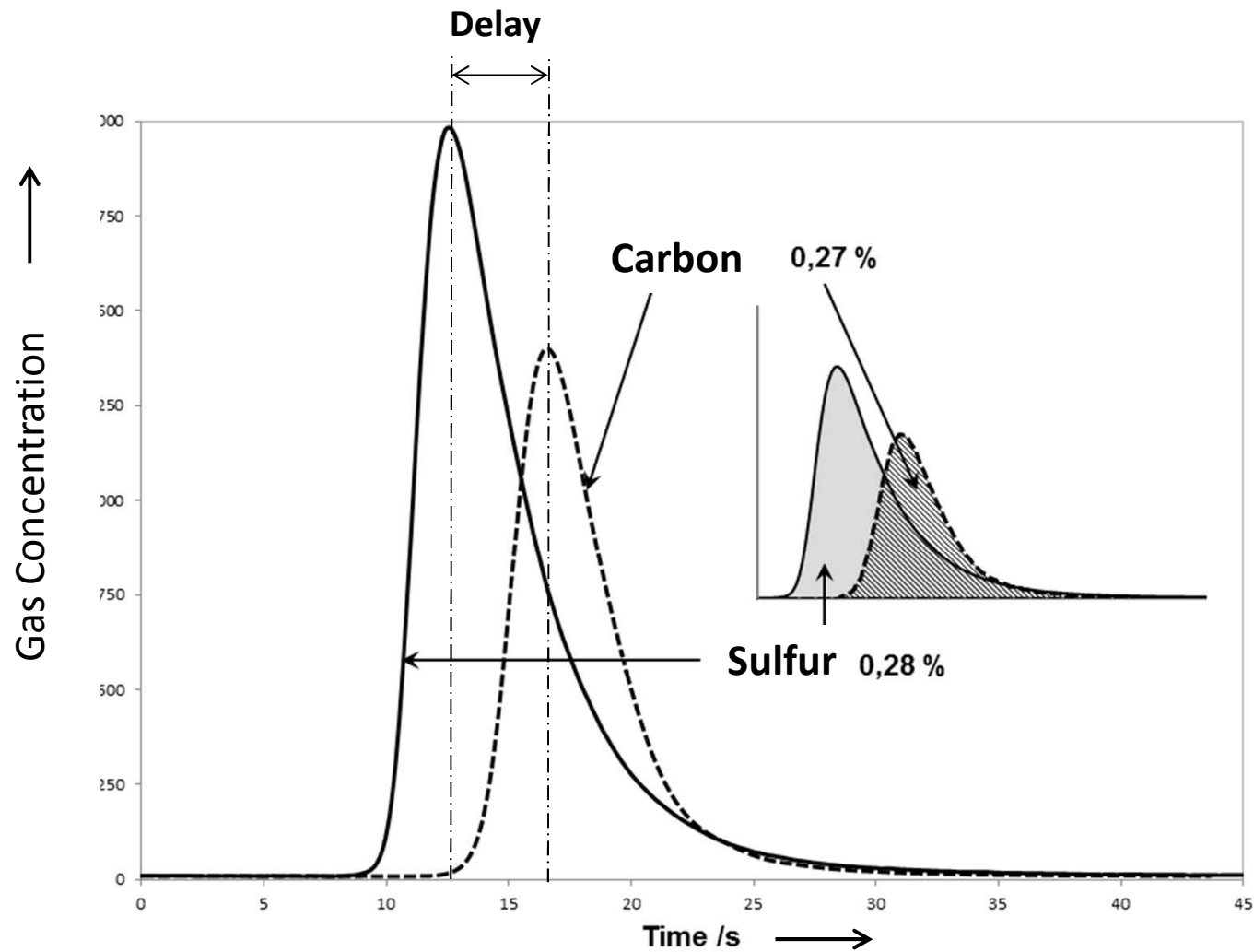


A novel fast response, low level gas analyzer system for detection of SO₂ and CO₂, based on combined NDIR- and NDUV-technology

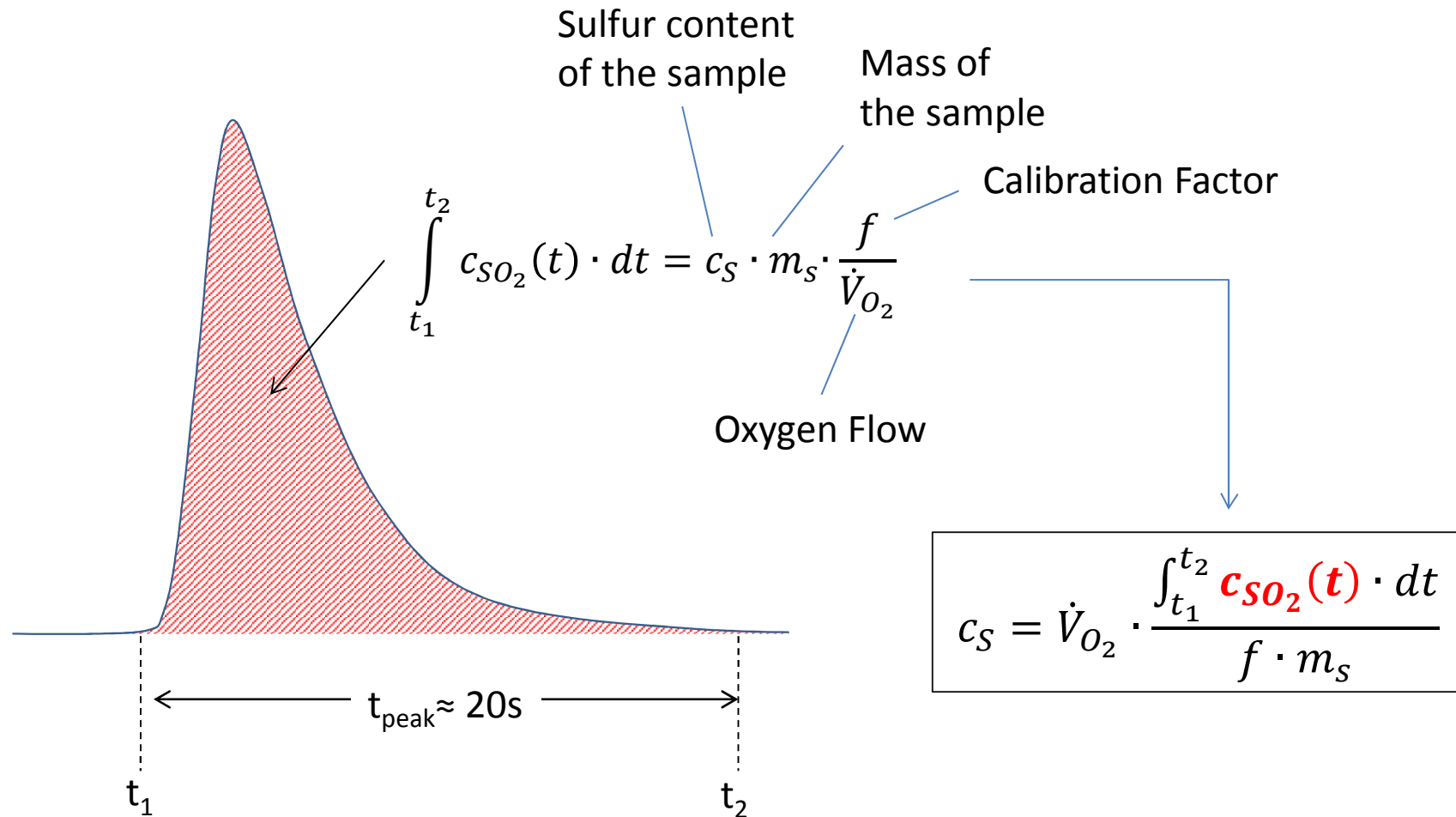
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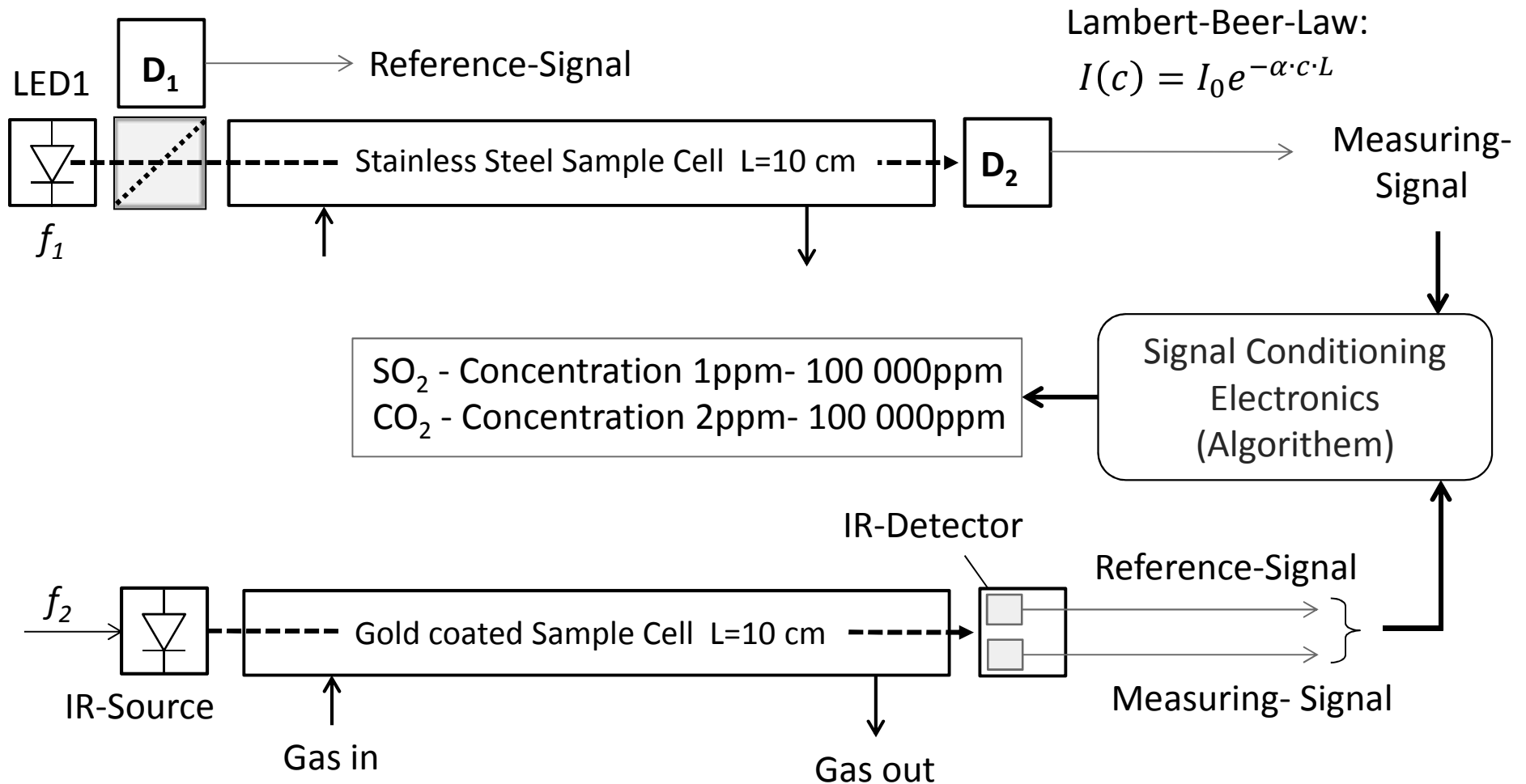


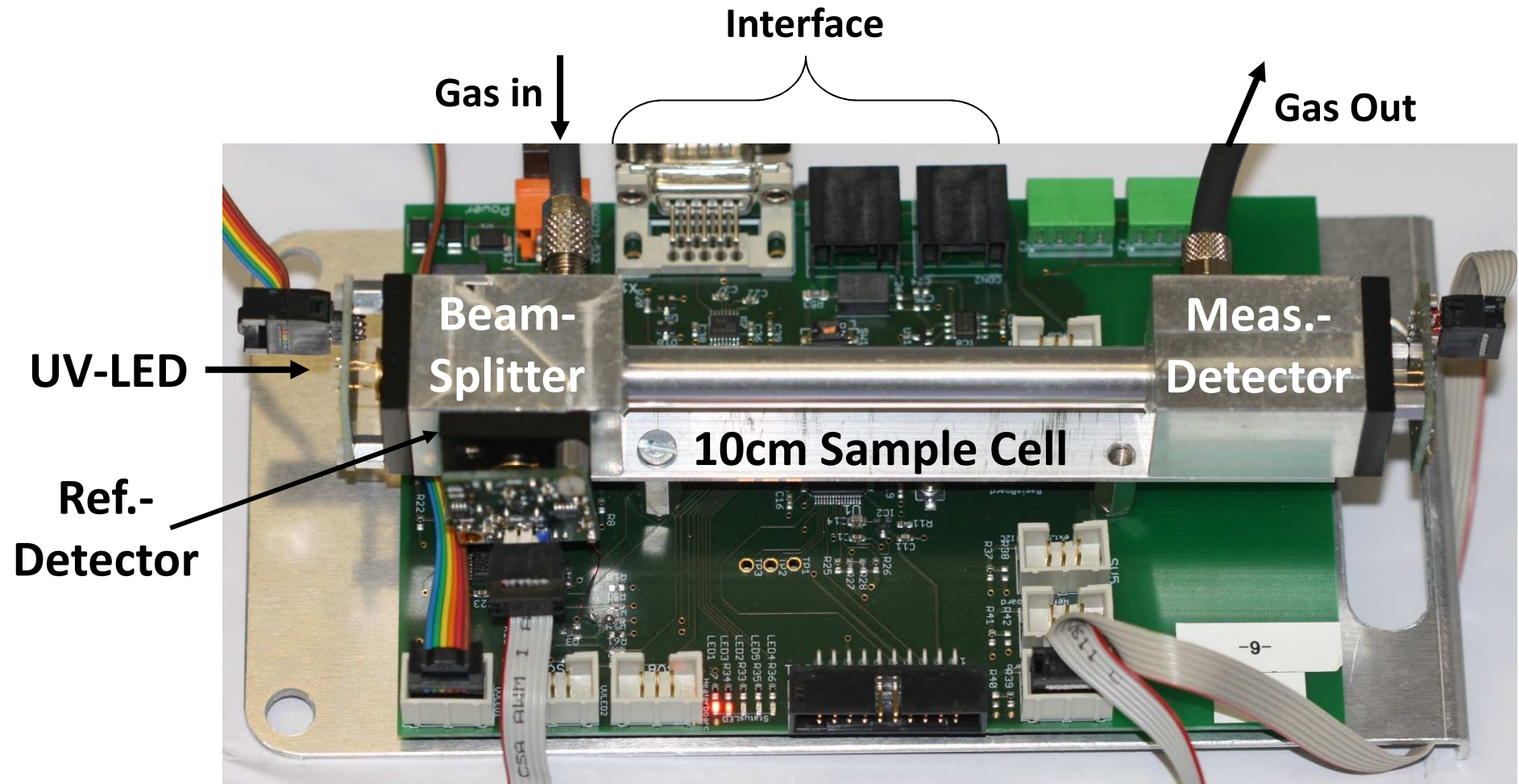
Transient Gas Peak

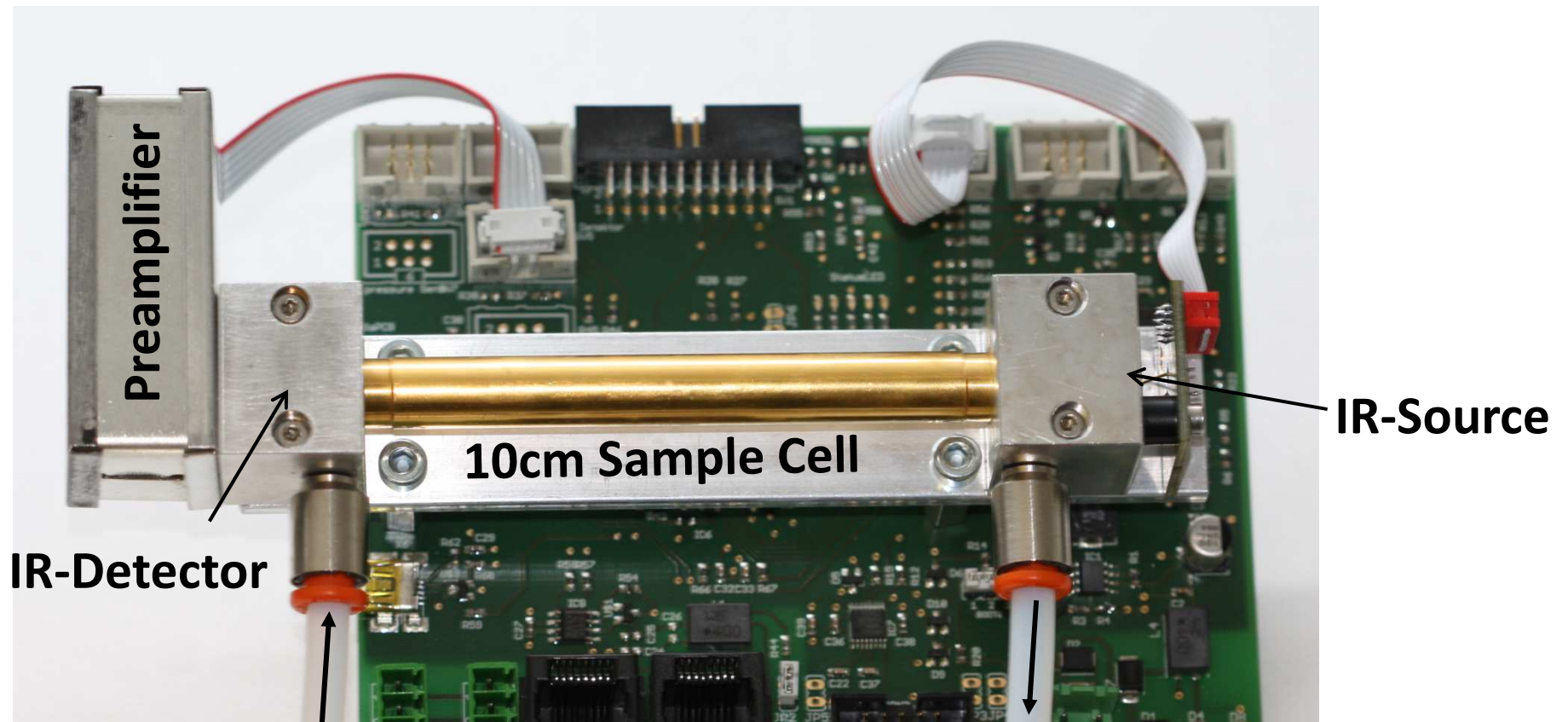


Calculation of the Sulfur (or Carbon) content

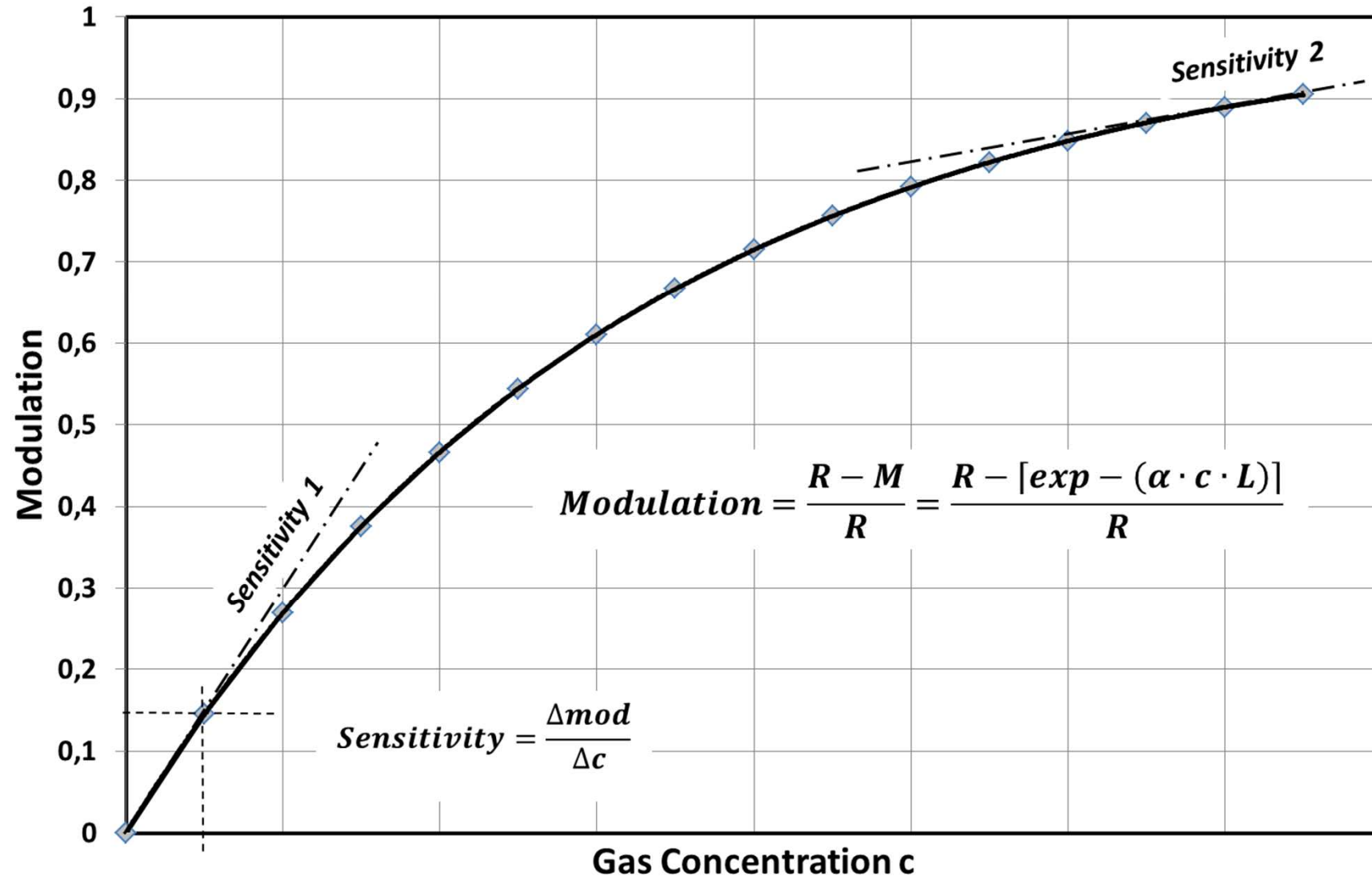




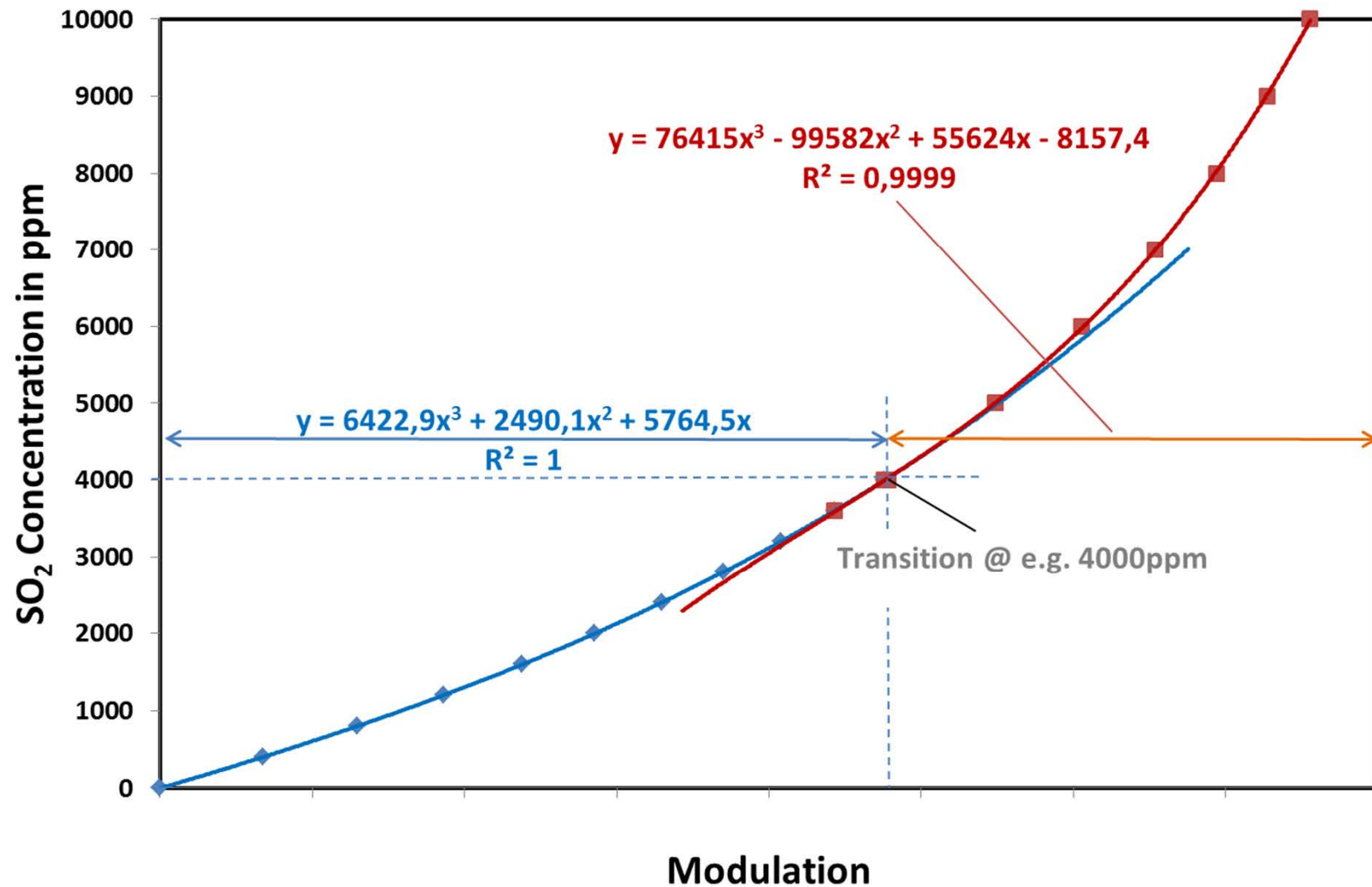




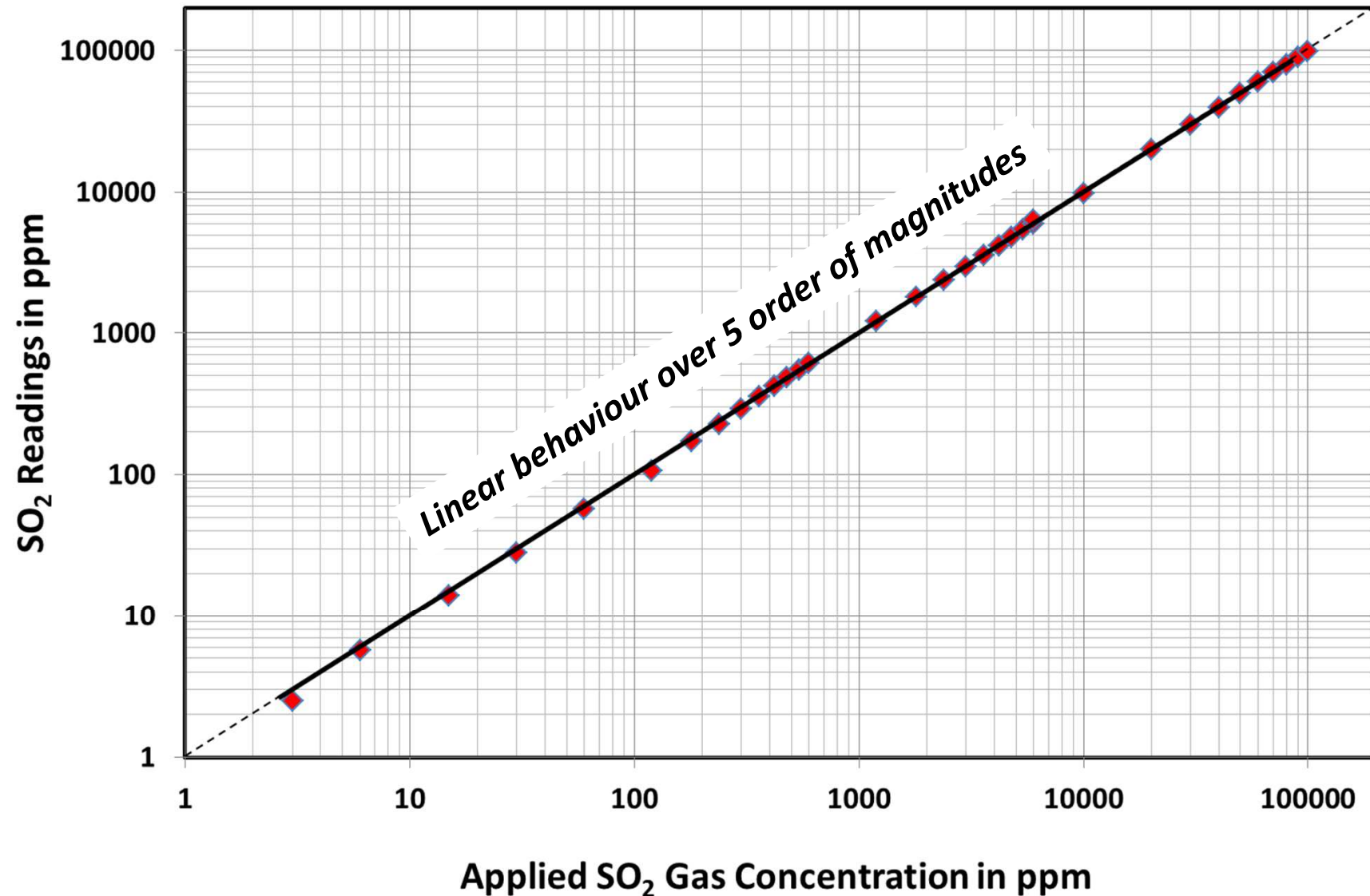
Sensitivity Behaviour



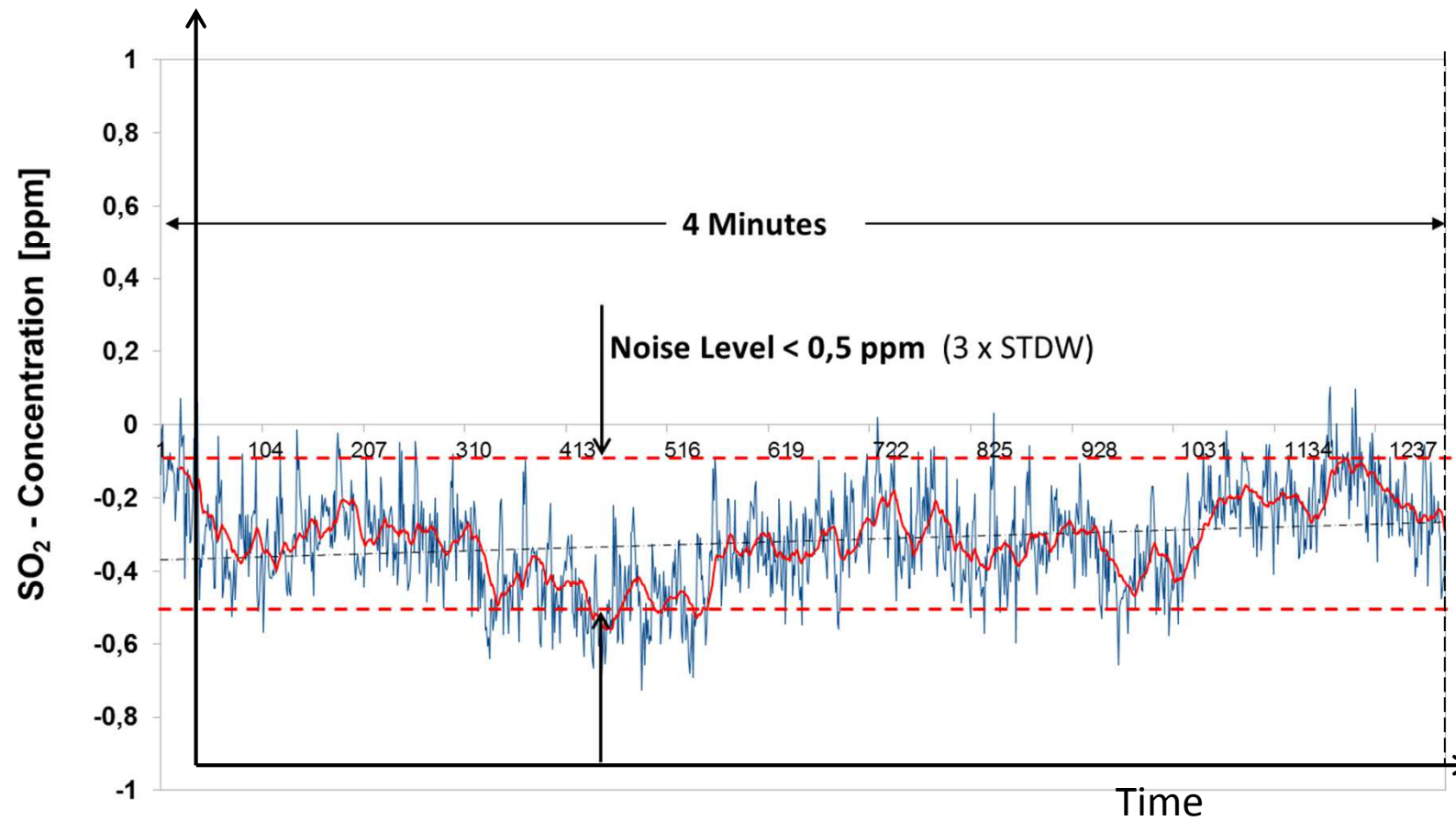
Inverse Function Linearization Curve



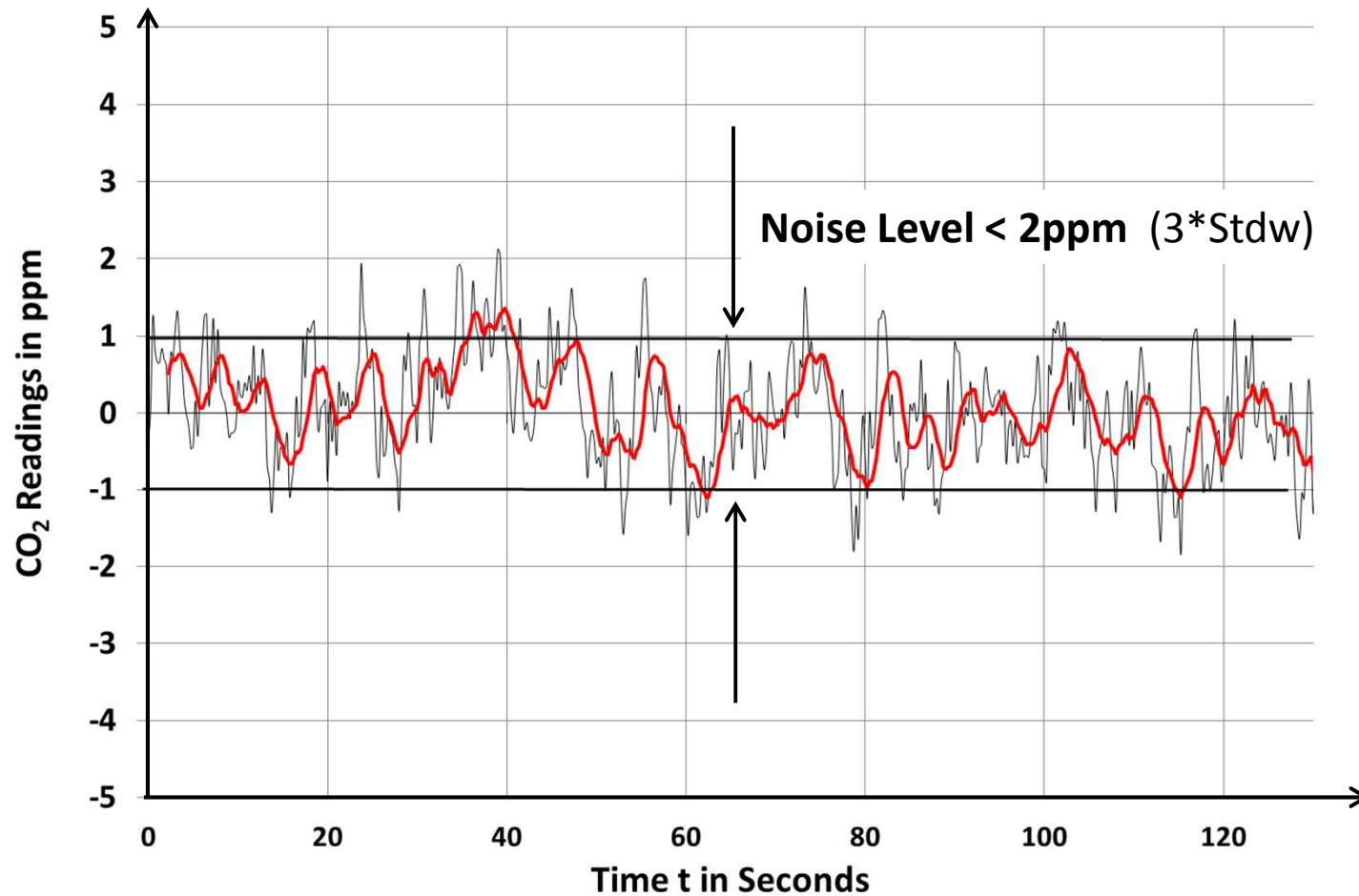
Calibration Curve



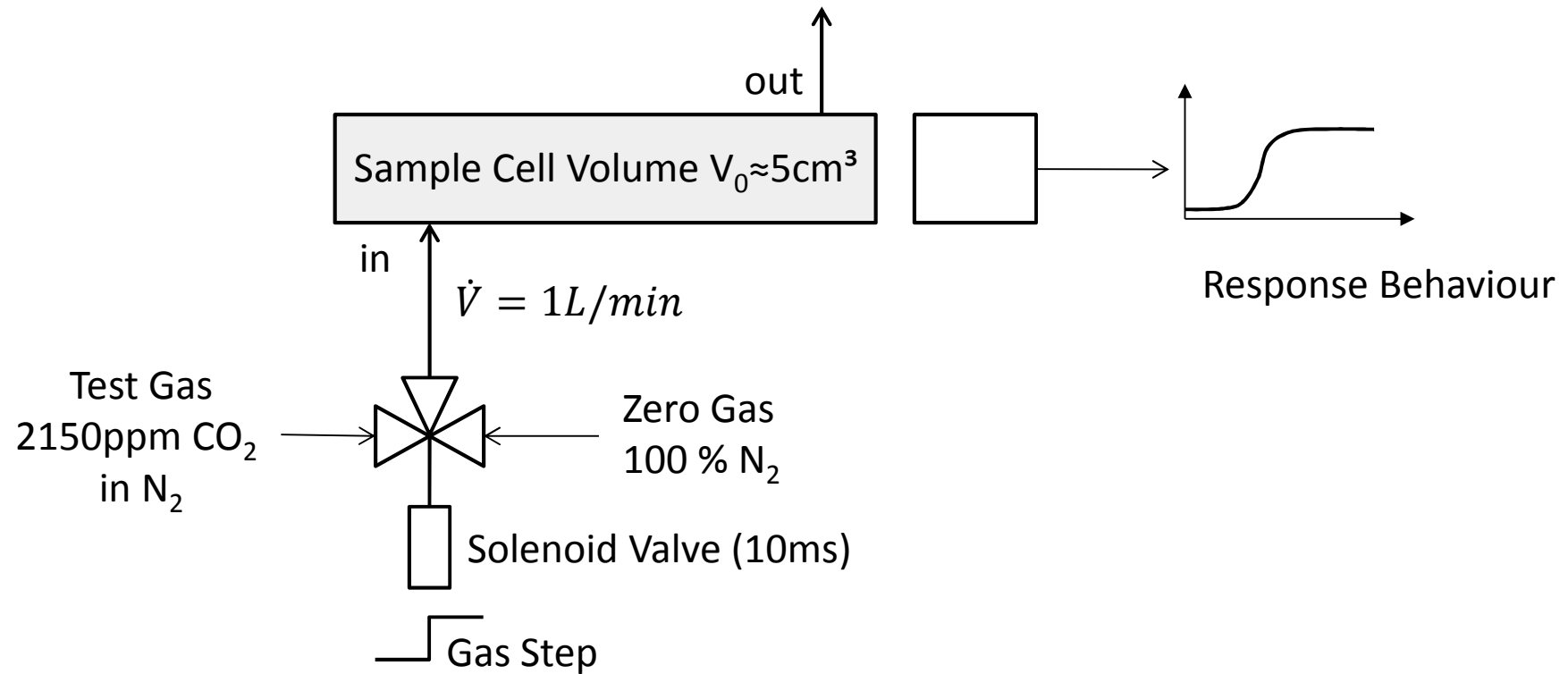
Zero Point Noise (SO_2 -Detection Limit)



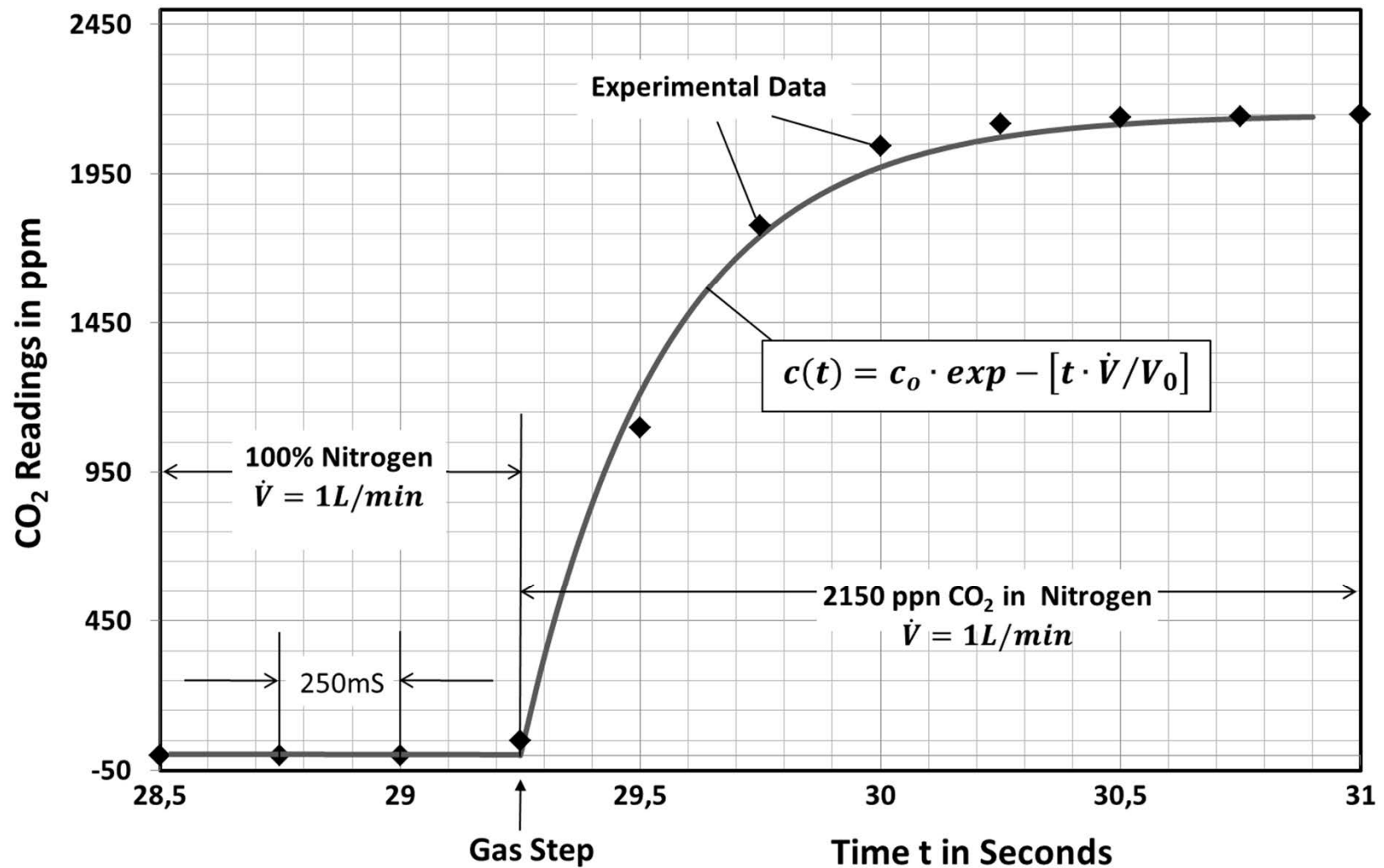
Zero Point Noise (CO_2 -Detection Limit)



Response Time Determination



Response Time Comparison



Specification

	SO ₂ -Module	CO ₂ -Module
Range	1ppm-100 000ppm	2ppm-100 000ppm
Detection Limit	0.5ppm	2.0ppm
Physical Response Time Purge Time	650ms @ 1L/min 160ms@4L/min	650ms @ 1L/min 160ms@4L/min
Electronic Response Time	< 100 ms	< 200ms
Power Consumption	<1 W	<1,5 W
Cross Talk	Negligible < 10ppm	Negligible < 10 ppm
Interface	CAN, RS 232, USB*	CAN, RS 232, USB*

**provided*