3000HM CEN 12619 standard performance data summary

Performance Characteristic	**Standard Specification**	**3000HM Performance**
Measuring range(s)	0-20mg/m3 (but up to 50mg/m3	8 ranges from 0-4 through to 0-10,000ppm
Detection threshold	0.4mg/m3	0.008mg/m3
Response time (0-90%)	less than 1 min	2.7 seconds [1]
Linearity deviation	0.4mg/m3	From 0-6mg/m3 = 0.1mg/m3 From 6-10mg/m3 = 0.0mg/m3
Response factors [a] *Aliphatic* *Aromatics* *Methylene Chloride*	 0.90 - 1.10 0.85 - 1.10 0.75 - 1.15	 1.02 [2] 0.99 [3] 0.85
Control gas mixture response	Within 15% of given concentration (1.0 for this)	0.98
Oxygen interference between 0-20% O_2	maximum 0.8mg/m3	max value -0.06mg/m3 at 12mgC/m3
Effects of interference gases SO_2 NO NO_2 CO CO_2 HCl H_2O	1mg/m3 " " " " " " "	 - 0.1mg/m3 + 0.6mg/m3 - 0.3mg/m3 +/- 0.2mg/m3 0.0mg/m3 - 0.2mg/m3 less than 1% relative deviation at zero and 15mg/m3 TOC

NOTES:-
(a) using test gas method (gravemetric standards).

(1) This figure was the same for both rise and fall T90.
(2) The aliphatics used where methane, ethane and propane
(3) The aromatics used where Benzene and Toluene

This information is a summary of the full test results as carried out by UK, French and German testing authorities during 1994/1995 for the purposes of arriving at this standard.In all 7 different European FIDs were assessed.
For the CEN tests the testing authorities assumed full scale deflection to be 20mg/m3.
The 3030 utilises the same detector assembly as the 3000HM.