

Measuring devices.



FTC400

Online analysis of complex gas mixtures

The analysis of the thermal conductivity is combined with an integrated multi-channel infrared measurement

Technology used:

Thermal conductivity for **H**₂, **N**₂, **He**, **Ar**, **Ne**, **Kr**, **Xe**...

Infrared for CO_2 , CO, CH_4 , H_2O , NO, SO_2 , SF_6 , HC...

- Up to 3 infrared active gases are to be measured and indicated
- Cross-sensitivity compensation for up to 2 IR-active gases
- IR measuring ranges on request



Measurement components and ranges

Measurement components and ranges for FTC400, FTC300, FTC160 and FTC130

Note: All measuring ranges are given in Vol.%								
Measurement Component	Carrier Gas	Basic Range	Smallest Range	Smallest Range with suppressed Zero Point	Multi Gas Mode MGM			
 Н ₂	N ₂ or air	0% - 100%	0% - 0.5%	98% - 100%	Yes			
0 ₂	N ₂	0% - 100%	0% - 15%	85% - 100%	Yes			
Не	N ₂ or air	0% - 100%	0% - 0.8%	97% - 100%	Yes			
CO ₂	N ₂ or air	0% - 100%	0% - 3%	96% - 100%	Yes			
N ₂	Ar	0% - 100%	0% - 3%	97% - 100%	Yes			
02	Ar	0% - 100%	0% - 2%	97% - 100%	Yes			
H ₂	Ar	0% - 100%	0% - 0.4%	99% - 100%	Yes			
Не	Ar	0% - 100%	0% - 0.5%	98% - 100%	Yes			
CO ₂	Ar	0% - 60%	0% - 10%	-	Yes			
Ar	CO ₂	40% - 100%	-	80% - 100%	Yes			
CH ₄	N ₂ or air	0% - 100%	0% - 2%	96% - 100%	Yes			
CH ₄	Ar	0% - 100%	0% - 1.5%	97% - 100%	Yes			
Ar	02	0% - 100%	0% - 3%	96% - 100%	Yes			
N ₂	Ė H₂	0% - 100%	0% - 2%	99.5% - 100%	Yes			
02	: CO ₂	0% - 100%	0% - 3%	96% - 100%	Yes			
H ₂	He	20% - 100%	20% - 40%	85% - 100%				
H ₂	CH ₄	0% - 100%	0% - 0.5%	98% - 100%				
H ₂	CO2	0% - 100%	0% - 0.5%	98% - 100%				
SF ₆	N ₂ or air	0% - 100%	0% - 2%	96% - 100%				
NO ₂	N_2 or air	0% - 100%	0% - 5%	96% - 100%				
H ₂	02	0% - 100%	0% - 4%	97% - 100%				
Ar	Xe	0% - 100%	0% - 3%	99% - 100%				
Ne	Ar	0% - 100%	0% - 1.5%	99% - 100%				
Kr	Ar	0% - 100%	0% - 2%	96% - 100%				
R125	N ₂ or air	0% - 100%	0% - 4%	98% - 100%				

Table 1

Measurement components and measuring ranges for FTC300HT (High Temperature)

Measurement Component	Carrier Gas	Basic Range	Smallest Range	Smallest Range with suppressed Zero Point	Multi Gas Mode MGM
CO ₂	Ar	0% - 100%	0% - 8%	70% - 100%	Yes
NH ₃	N_2	0% - 70%	0% - 3%	55% - 70%	Yes
C_2H_4	N_2	0% - 100%	0% - 10%	60% - 100%	Yes
H ₂ 0	N_2	0% - 20%	0% - 4%	16% - 20%	

Table 2

In addition all measurement and carrier gases given in table 1 are also available